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Water Resources Data for Nevada, Water Year 1977

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Apr 78

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Water Resources Data for Nevada

Water Year 1977

U.S. GEOLOGICAL SURVEY WATER DATA REPORT NV-77-1

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U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

Prepared in cooperation with the State of Nevada and with other agencies

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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1977

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U.S. Geological Survey
Room 229, Federal Building
705 North Plaza Street
Carson City, Nevada 89701

TO USERS OF "WATER RESOURCES DATA FOR NEVADA, 1977"

ERRATA SHEET

Figure 7, which belongs on page 30 (following Fig. 6), appears in error on page 282.

F. T. Hidaka
F.T. Hidaka
District Chief

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Water resources data for the 1977 water year for Nevada consist of records of discharg and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels in wells. This report contains discharge records for 120 gaging stations; stage and contents for 20 lakes and reservoirs; water-quality data fo continuing-record stations at 27 stream sites and for partial-record stations at 8 stream sites, 2 lake sites, and 15 wells; and water levels for 165 observation wells. Also included are 106 crest-stage partial-record stations and 13 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurement These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

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for
Nevada

Water Year 1977

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-77-1

Prepared in cooperation with the State of Nevada and with
other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

Dr. H. William Menard, Director

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Carson City, Nevada 89701

1978

Preface

This report was prepared by the U.S. Geological Survey in cooperation with the State of Nevada and with other agencies, by personnel of the Nevada district of the Water Resources Division under the supervision of Frank T. Hidaka, District Chief, and William H. Robinson, Regional Hydrologist, Western Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and S. M. Lang, Acting Assistant Chief Hydrologist for Scientific Publications and Data Management.

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[Letter after station name designates type of data: (d) discharge, (e) elevation or contents, (c) chemical, (b) biological and microbiological, (t) water temperature, (s) sediment; (x) supplemental water-quality data listed separately beginning on p. 238]

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WATER RESOURCES DATA FOR NEVADA, 1977

INTRODUCTION

Water resources data for the 1977 water year for Nevada consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells. This report contains discharge records for 120 gaging stations; stage and contents for 20 lakes and reservoirs; water-quality data for continuing-record stations at 27 stream sites and 1 lake site, for partial-record stations at 8 stream sites, 9 lake sites, and 14 wells; and water levels for 165 observation wells. Also included are data for 106 crest-stage partial-record stations and 13 low-flow partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

Records of discharge of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a multi-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels are published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States."

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NV-77-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151.

COOPERATION

The U.S. Geological Survey and organizations of the State of Nevada have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1951. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Nevada Department of Conservation and Natural Resources,
Norman S. Hall, Director.
Division of Water Resources, Roland Westergard, State Engineer.
Division of Environmental Protection, Ernest G. Gregory, Chief.

Nevada Department of Highways, Grant Bastian, P. E.,
State Highway Engineer.

Carson City Public Works Department, Paul Lumos, Director.

California Department of Water Resources, Ronald B. Robie,
Director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; the Bureau of Reclamation, the Fish & Wildlife Service, the Bureau of Indian Affairs, U.S. Department of the Interior; U.S. District Court Watermaster; the Environmental Protection Agency; Washoe County Public Works Department; Desert Research Institute; Nevada Power Company; Sierra Pacific Power Company; and Southern California Edison.

The following organizations aided in collecting records:

Clark County Flood Control District; Walker River Irrigation District; Carson-Truckee Water Conservancy District; Truckee-Carson Irrigation District; City of Las Vegas; Pershing County Water Conservation District; Nevada Department of Fish and Game; Nevada Department of Administration; Carson Water Sub-Conservancy District; and the U.S. Board of Water Commissioners.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENTS

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HYDROLOGIC CONDITIONS

Water year 1977 was the driest year since the drought period 1959-1961 in the Humboldt River basin with runoff for the water year about 33 percent of average. Runoff in the west-central area of the State averaged 25 to 50 percent of average. The lack of rainfall resulted in deficient runoff and reservoir storage, and few flood events in the State. Figure 1 on the next page compares the monthly and yearly mean discharges for the 1977 water year with the median discharges for the reference period 1941 to 1970 at two long-term gaging stations.

Storage in Rye Patch Reservoir reached 58 percent of capacity in March of this year which was 66 percent less than last year. Overall, reservoir contents were about 50 percent or more below capacity during the year.

Thunderstorm activity was above average in June and August. Some notable thunderstorm and flash-flood periods were June 9-10, August 17-21, and September 9-10. The June storm activity was statewide whereas most of the August and September flash flooding occurred in the south and east parts of the State. Short-term road closures were not uncommon but road repair damages were not unusually large. The most notable damage was caused by a flash flood on August 21 in Corey Canyon which destroyed a part of the City of Hawthorne water supply.

The drought that affected the western United States during the past water year influenced water quality. The lower-than-normal flows were accompanied by higher-than-normal concentrations of dissolved solids. This was particularly true in the Truckee River basin, where very low flows followed depletion of reservoir storage. Maximum specific conductances for the period of record were measured during 1977 at stations 10346000, 10350050, and 10351700 on Truckee River; the new maximums were 169, 355, and 945 micromhos, respectively.

Water temperatures also were higher-than-normal during the summer. In contrast, suspended-sediment concentrations were generally lower-than-normal during 1977, owing to the lower-than-normal streamflows.

Water levels in observation wells generally declined in 1977. Overall, declines were observed in slightly more than 70 percent of the wells measured. New record lows were observed in 44 wells and new record highs occurred in 4 wells.

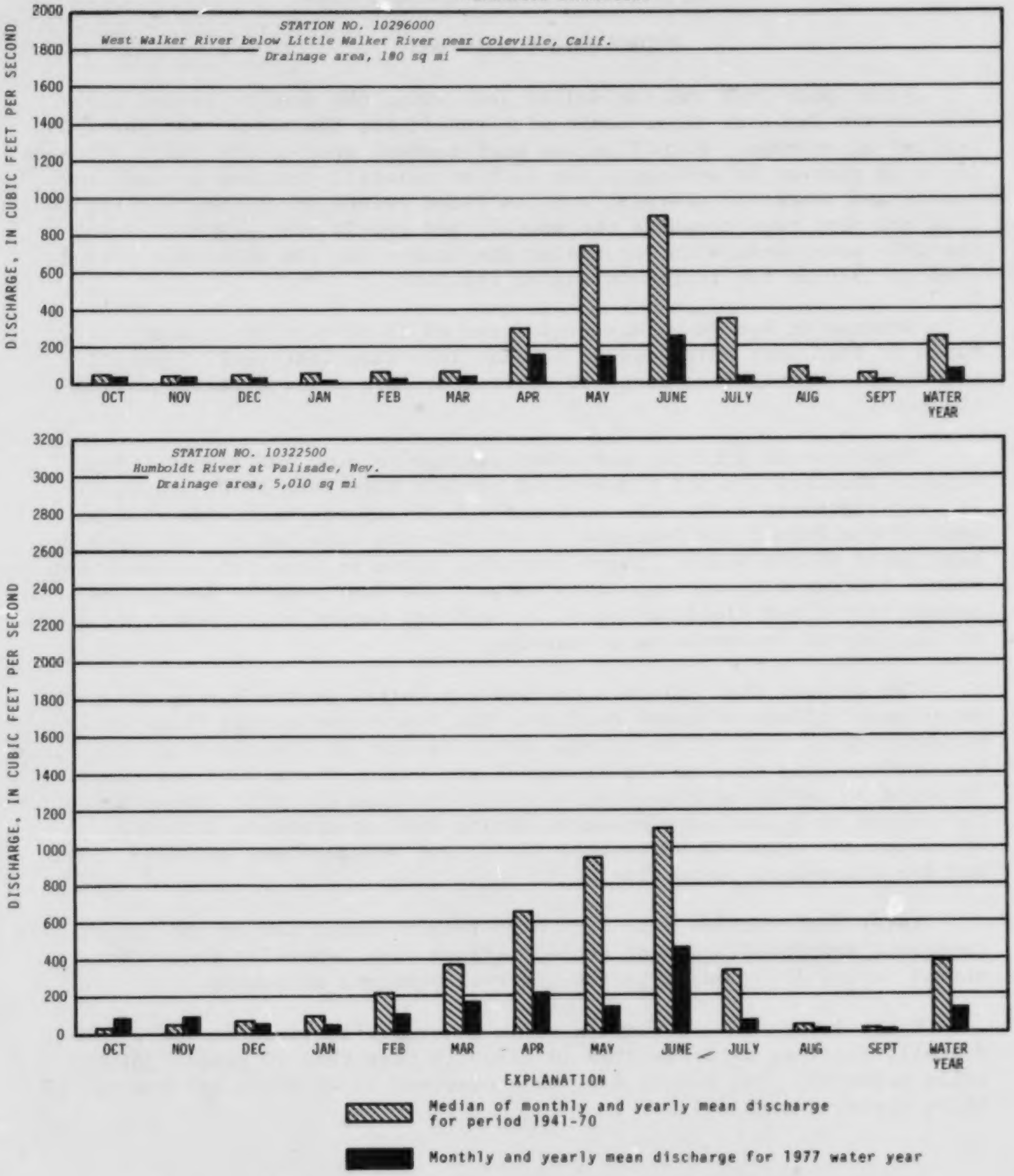

FIGURE 1.--COMPARISON OF DISCHARGE AT TWO LONG-TERM REPRESENTATIVE GAGING STATIONS DURING 1977 WATER YEAR WITH MEDIAN DISCHARGE FOR PERIOD 1941-70.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as below. See also table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined, and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals, including man. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash-mass values of phytoplankton are expressed in grams per cubic meter (g/m^3), and of periphyton in grams per square meter (g/m^2).

Dry mass for periphyton refers to the mass of residue present after drying in an oven at 105°C until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (ml). The listed phytoplankton total, in cells/ml, may be slightly different from a summation of individual organism counts, because of differences associated with rounding off.

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll *a* and *b* are the two most common green pigments in plants.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meter per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, half the bicarbonate (generally a major dissolved component of water) is converted to carbonate, and the rest is lost as carbon dioxide plus water vapor. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in mg/l, is multiplied by 0.492 to reflect the loss and to thereby make calculated and "residue-on-evaporation" values comparable.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline-earth ions (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (LSD, lsd) is a datum plane that is approximately at land surface at each observation well.

Mean sea level (MSL, msl) is the datum plane on which the national network of precise levels is based.

Measuring point (MP) is an arbitrary datum point from which water levels in observation wells are measured.

Micrograms per kilogram (µg/kg) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of sediment.

Micrograms per liter (UG/L, µg/l) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass (milligrams) of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/l, and is based on the mass of sediment per liter of water-sediment mixture.

Miscellaneous site is a location other than a continuous- or partial-record station where random samples are collected to give better areal coverage of water-quality conditions in a river basin.

Organism is any living entity, such as an insect, phytoplankton, or zooplankton.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (ml) or liters (l). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.0040	Sedimentation.
Silt..........	.0040 - .062	Sedimentation.
Sand..........	.062 - 2.	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifiers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in the water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/ml of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/ml of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates, and decomposed organic material such as humus. The quantity characteristics of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents, or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed), expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Suspended-sediment discharge (tons/day) is the rate at which sediment passes a section of a stream. It is computed by multiplying discharge times concentration (mg/l) times the proper conversion coefficient (generally, 0.0027).

Sodium-adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil, and is an index of sodium or alkali hazard to the soil. This ratio should be known for irrigation water.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids concentration of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from water to water, and it may vary in the same source with changes in composition.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom........................Plant
Phylum...................Chrysophyta
Class...............Bacillariophyceae
Order........................Pennales
Family.................Achnanthaceae
Genus.....................*Achnanthes*
Species...................*lanceolata*

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per day is the rate at which a substance in solution or suspension passes a stream section.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since Oct. 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 10351700, which appears just to the left of the station name, includes the 2-digit part number "10" plus the 6-digit downstream order number "351700." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

Latitude-Longitude Numbers

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 2 below.

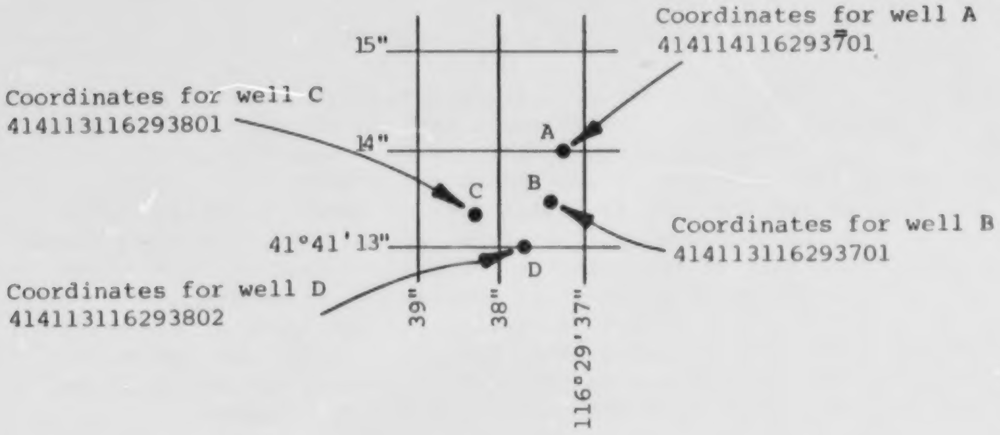

Figure 2.--Site-numbering system based on longitude and latitude.

Local Site Numbers

Local site numbers used in Nevada locate ground-water data sites (wells or springs) by hydrographic areas and by the official rectangular subdivision of the public lands with reference to the Mt. Diablo meridian and base line. Nevada has been divided into 14 hydrographic regions and basins and approximately 250 individual hydrographic areas or valleys[1] which are used to compile information pertaining to water resources in Nevada. The local site number uses as many as 19 digits to locate the site by hydrographic area, township, range, section, and section subdivision.

The first segment of the local site number specifies the hydrographic area as defined by Rush. The remainder of the number specifies the township north or south of the Mt. Diablo base line, the range east of the Mt. Diablo meridian, the section, and subdivision of the section. Sections are divided into quadrants labeled counterclockwise from upper right as A, B, C, and D. Each quadrant is then similarly subdivided up to as many as 3 times, depending on the accuracy of available maps; thus each section of about 640 acres (259 ha) may be subdivided into tracts approximately 330 ft (100 m) on a side containing about 2.5 acres (1.0 ha). Lettered quadrants are read from left to right with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. For example, as shown in figure 3, a well in Mason Valley (hydrographic area 108) located within the unshaded area of section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCCC1. A second well within the same 2.5-acre (1.0-ha) tract would be numbered 108 N13 E26 06CCCC2.

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1. Rush, F. E., 1968, Index of hydrographic areas: Nevada Dept. Conserv. and Nat. Resources, Info. Ser. Rept. 6, 38 p.

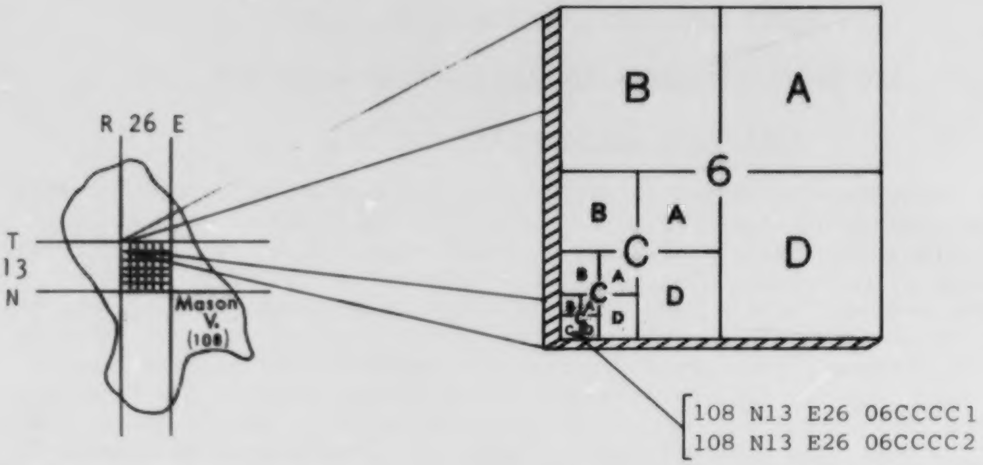


Figure 3.--Numbering system used in Nevada for ground-water sites.

Prior to January 1976, published local site numbers in Nevada followed the general format exemplified by 13/26-16ab1, where the first number was the township north (or south, if preceded by an "S"), the second number was the range east, the third number was the section, and the following letter or letters and number indicated the quarter sections and sequence number as defined above.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The basic data collected at gaging stations consist of records of stage and measurements of discharge of streams (including canals), and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement basic data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and the discharge cannot be computed in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily stage or contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the inside of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

The maximum discharge (or contents), and the maximum gage height, the minimum discharge, if there is little or no regulation (or minimum contents), and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately.

Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of water-quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. To make such revised records easier to find, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow during the month, in cubic feet per second. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month is also expressed in acre-feet (line headed "AC-FT").

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the work "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights are listed below the yearly summary for many stations. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are given in a special table following the tables of discharge at partial-record stations and miscellaneous sites.

Accuracy of Data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of true value; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s (if zeros only are used in the hundredths place, it may be for uniformity, and the values should not be considered accurate to the nearest hundredth); to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures about 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules may apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also, most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

Special reports on major floods or droughts, as well as other hydrologic studies, have been issued by the Geological Survey in publications other than water-supply papers or annual reports. Information relative to these other publications or the availability of unpublished data or statistical analyses may be obtained from the District Office, at the address given on the back of the title page.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Nevada at other sites during the current water year by other State and Federal agencies. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22090, maintains an index of these sites. Information on records at specific sites can be obtained from that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Records of surface-water quality are listed in downstream order by station number. The data generally are collected at or near gaging stations, and are reported immediately following other records for those stations. Water-quality data for most ungaged sites are listed with the records for other surface-water stations, in regular downstream order. The exceptions are the less detailed data for several ungaged sites, which are grouped separately in the section titled "Analyses of samples collected at water-quality partial-record stations."

The descriptive headings for detailed records of surface-water quality give periods of record for the various categories of data, extremes for certain pertinent data, and general remarks. For less detailed records, only the overall period of record is listed.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey publications on Techniques of Water-Resources Investigations, which are listed on a following page.

One stream-water sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of thestream. Some streams must be sampled through several vertical sections to obtain a representative sample for the accurate determination of mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. Where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the published records consist of daily maximum, minimum, and mean values. More detailed records may be obtained from the district office.

Water temperature

Water temperatures are measured at all water-quality stations. In addition, water temperatures are measured at time of discharge measurements at all gaging stations. For stations where water temperatures are measured manually once daily, the measurements are made at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, daily maximum and minimum temperatures are published. More detailed records are available from the district office.

Sediment

Suspended-sediment concentrations are determined on samples collected using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section.

The samples are collected periodically--generally once per month. During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment quantity, periodic measurements of the particle-size distribution of the sediment also are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local well number that is provided for local needs. See figures 1 and 2.

Measurements are made in many types of wells under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) of land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

In 1945, the Geological Survey and the office of the Nevada State Engineer entered a cooperative agreement to investigate the ground-water resources of Nevada. The Geological Survey began to publish ground-water level data for Nevada in 1950 starting with Water-Supply Paper 1170 which contained data for calendar years 1946-50. Measurements prior to 1946 are contained in State of Nevada Water Resources Bulletin No. 3. Publications of ground-water level data to date are listed below:

Calendar year	Publications
1913-45	State of Nevada Water Resources Bulletin No. 3
1946-50	WSP-1170
1951	WSP-1196
1952	WSP-1226
1953	WSP-1270
1954	WSP-1326
1955	WSP-1409
1956-60	WSP-1770
1961-65	WSP-1855
1966-70	WSP-2010
1971-74	WSP-2162
1975	USGS-Water Data Report NV-75-1
1976	USGS-Water Data Report NV-76-1

WATER-RELATED REPORTS PREPARED BY THE GEOLOGICAL SURVEY FOR RELEASE DURING THE WATER YEAR

Fallon area: Schlumberger resistivity soundings near Fallon, Nevada, by A. R. Zohdy, R. J. Bisdorf, and P. A. Glancy; Nevada Div. Water Resources Inf. Rept. 25, 39 p.

Glenbrook Creek area, Lake Tahoe basin: A reconnaissance of sediment transport, streamflow, and chemical quality, Glenbrook Creek, Lake Tahoe basin, Nevada, by P. A. Glancy; Nevada Dept. Highways Hydrologic Rept. 2, 54 p.

Las Vegas Valley: Pumping and ground-water storage depletion in Las Vegas Valley, Nevada, 1955-74, by J. R. Harrill; Nevada Div. Water Resources Bull. 44, 70 p.

Las Vegas Valley: Water-level changes associated with ground-water development in Las Vegas Valley, Nevada, March 1975 to March 1976: Nevada Div. Water Resources Inf. Rept. 26, 31 p.

Nevada: Flood investigations in Nevada through 1976 water year, by Otto Moosburner; U.S. Geol. Survey open-file rept., 90 p.

Nevada: Estimated use of water in the United States in 1975, by C. R. Murray and E. R. Reeves; U.S. Geol. Circular 765, 39 p.

Nevada: Summary appraisals of the Nation's ground-water resources--Great Basin Region, by T. E. Eakin, Don Price, and J. R. Harrill; U.S. Geol. Survey Prof. Paper 813-6, 37 p.

Smith Valley: Water requirements and efficiency of sprinkler irrigation of alfalfa, Smith Valley, Nevada--A case history, by F. E. Rush; Nevada Div. Water Resources Inf. Rept. 24, 10 p.

Western Carson Desert: Use of temperature surveys at a depth of 1 meter in geothermal exploration in Nevada, by F. A. Olmsted; U.S. Geol. Prof. Paper 1044-B, 25 p.

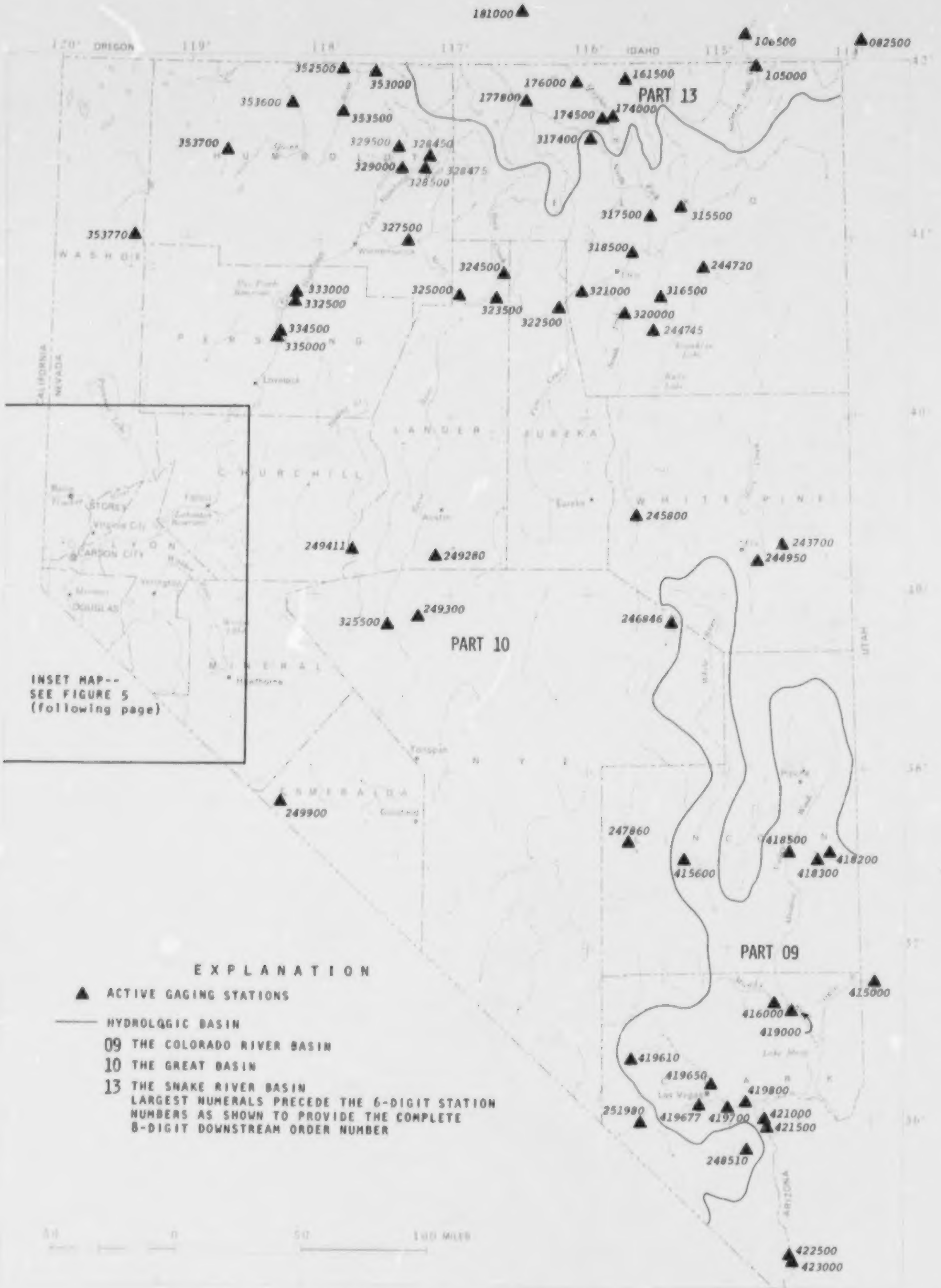
PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. $1.60.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. $0.85.
2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.
2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.
3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $1.00.
3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.35.
3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.
3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.
3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.35.
3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. $1.00.
3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $1.40.
3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.
3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $1.20.
3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.30. Not currently available.
3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.
3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. $2.50.
3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.
3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. $2.50.
3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.
4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $1.60.
4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.35.
4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.
4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.
4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.
4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $1.10.
5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.
5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.
5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.
5-A4.* *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. Revised edition. 332 pages. $20.00.
5-A5.* *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. $16.00.
5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $2.10.
7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.
8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.
8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $1.10.

*This publication is available ONLY by mail order from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402. It is in looseleaf format and is a subscription item. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requestor should emphasize to Superintendent of Documents that this is a subscription item.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082500
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OREGON
119°
118°
117°
116°
IDAHO
115°
114°
42°
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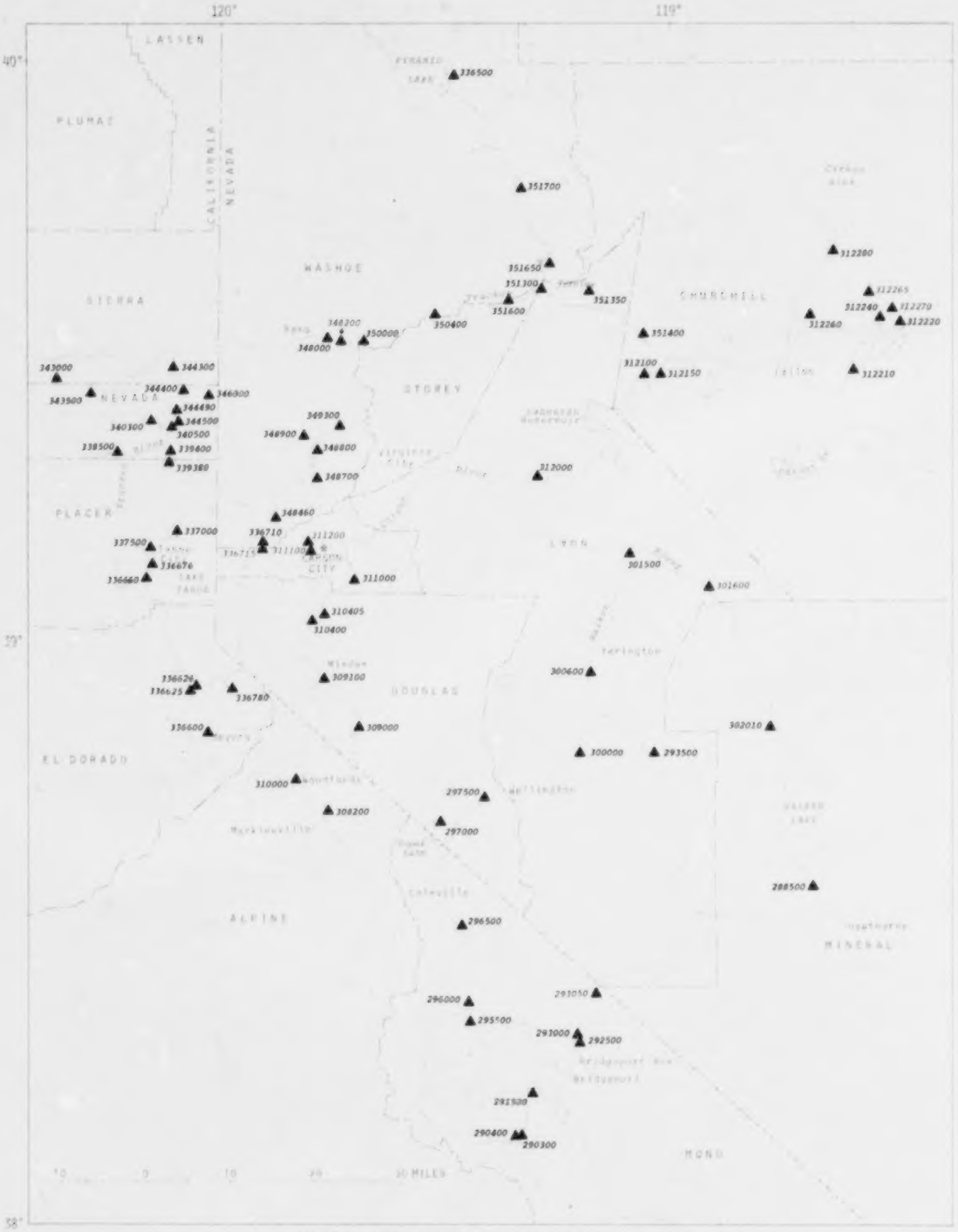
353000
353600
353500
353700
329500
328450
329000
328475
328500
176000
161500
177800
PART 13
174500
174000
317400
105000
317500
315500
353770
327500
318500
244720
324500
333000
332500
325000
323500
322500
321000
316500
320000
244745
334500
335000
41°
40°
39°
38°
37°
36°
WASHOE
PERSHING
LANDER
EUREKA
CHURCHILL
WHITE PINE
STOREY
CARSON CITY
LYON
DOUGLAS
MINERAL
NYE
ESMERALDA
CALIFORNIA
NEVADA
UTAH
ARIZONA
245800
249411
249280
243700
244950
325500
249300
PART 10
246846
INSET MAP--
SEE FIGURE 5
(following page)
249900
247860
415600
418500
418200
418300
PART 09
415000
416000
419000
419610
419650
419800
251980
419677
419700
421000
421500
248510
422500
423000
50
0
50
100 MILES
EXPLANATION
ACTIVE GAGING STATIONS
HYDROLOGIC BASIN
09 THE COLORADO RIVER BASIN
10 THE GREAT BASIN
13 THE SNAKE RIVER BASIN
LARGEST NUMERALS PRECEDE THE 6-DIGIT STATION NUMBERS AS SHOWN TO PROVIDE THE COMPLETE 8-DIGIT DOWNSTREAM ORDER NUMBER

FIGURE 4.--GAGING STATIONS LISTED IN THIS REPORT.

28


120°
119°
40°
39°
38°
LASSEN
PLUMAS
CALIFORNIA
NEVADA
SIERRA
WASHOE
NEVADA
PLACER
STOREY
CHURCHILL
LYON
DOUGLAS
EL DORADO
ALPINE
MINERAL
MONO
Pyramid Lake
Reno
Sparks
Fallon
Virginia City
Carson City
Tahoe City
Lake Tahoe
Minden
Yerington
Woodfords
Markleeville
Wellington
Coleville
Walker Lake
Hawthorne
Bridgeport
Bridgeport Res
Lahontan Reservoir
Carson Sink
336500
351700
351650
351300
351600
351350
350400
348200
348000
350000
351400
312100
312150
312280
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312270
312260
312220
312210
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343500
344300
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336625
336780
309100
336600
309000
302010
300000
293500
310000
308200
297500
297000
288500
296500
293050
296000
295500
293000
292500
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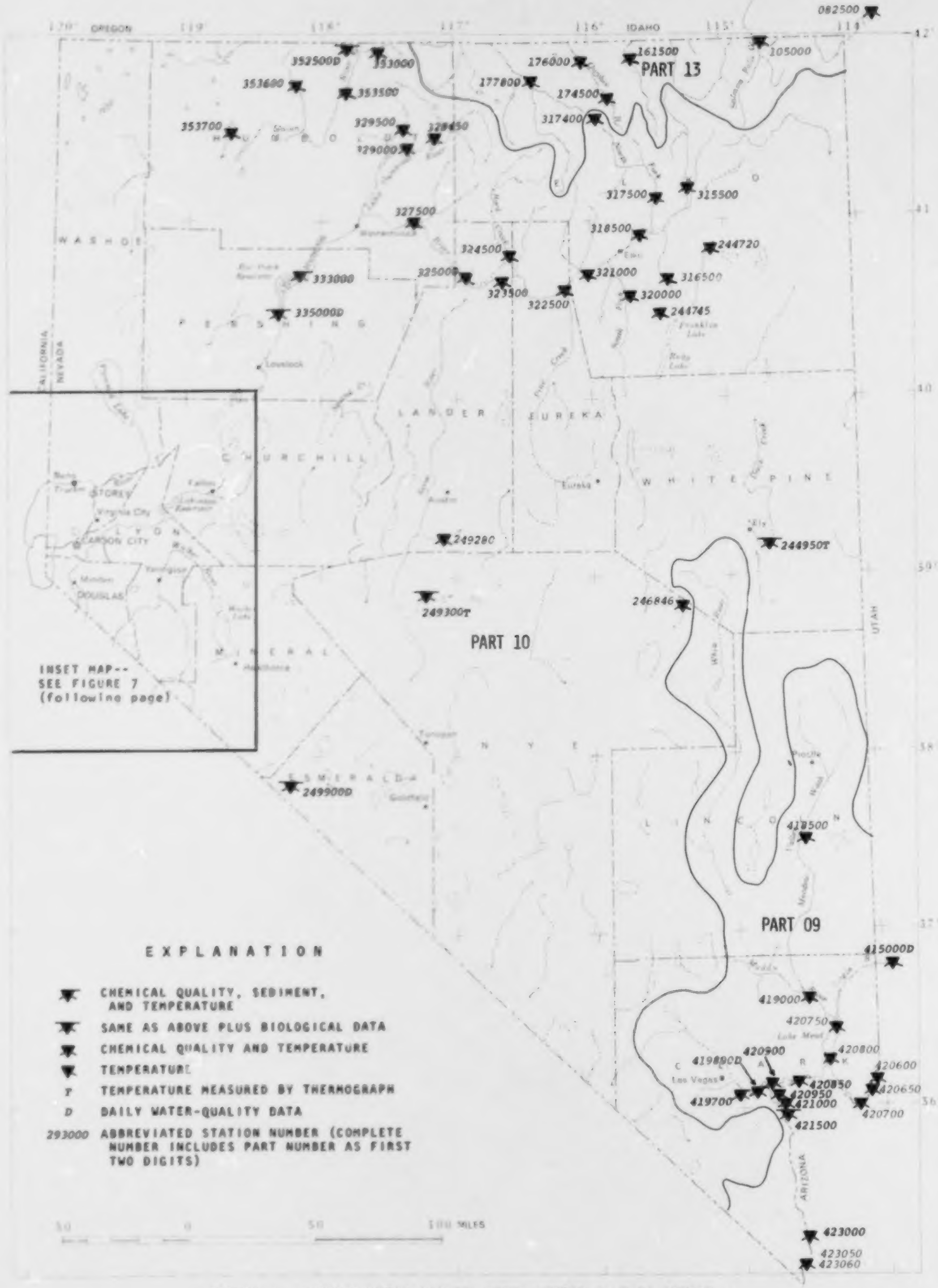
290300
10
0
10
20
30 MILES

FIGURE 5.--ACTIVE GAGING STATIONS IN WEST-CENTRAL NEVADA.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IDAHO
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42°
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37°
36°
082500
105000
161500
176000
177800
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317400
PART 13
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325000
323500
322500
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316500
320000
244745
333000
335000D
WASHOE
HUMBOLDT
ELKO
PERSHING
LANDER
EUREKA
CHURCHILL
WHITE PINE
Lovelock
Eureka
Ely
CALIFORNIA
NEVADA
STOREY
Virginia City
CARSON CITY
LYON
DOUGLAS
MINERAL
249280
244950T
249300T
246846
PART 10
NYE
ESMERALDA
249900D
Goldfield
Tonopah
LINCOLN
418500
PART 09
UTAH
415000D
419000
420750
Lake Mead
420800
420900
419890D
CLARK
Las Vegas
420850
420600
420950
420650
419700
421000
420700
421500
ARIZONA
423000
423050
423060
INSET MAP--
SEE FIGURE 7
(following page)
EXPLANATION
CHEMICAL QUALITY, SEDIMENT, AND TEMPERATURE
SAME AS ABOVE PLUS BIOLOGICAL DATA
CHEMICAL QUALITY AND TEMPERATURE
TEMPERATURE
T TEMPERATURE MEASURED BY THERMOGRAPH
D DAILY WATER-QUALITY DATA
293000 ABBREVIATED STATION NUMBER (COMPLETE NUMBER INCLUDES PART NUMBER AS FIRST TWO DIGITS)
50
0
50
100 MILES

FIGURE 6.--SURFACE-WATER QUALITY SITES LISTED IN THIS REPORT.

2

3ϕ

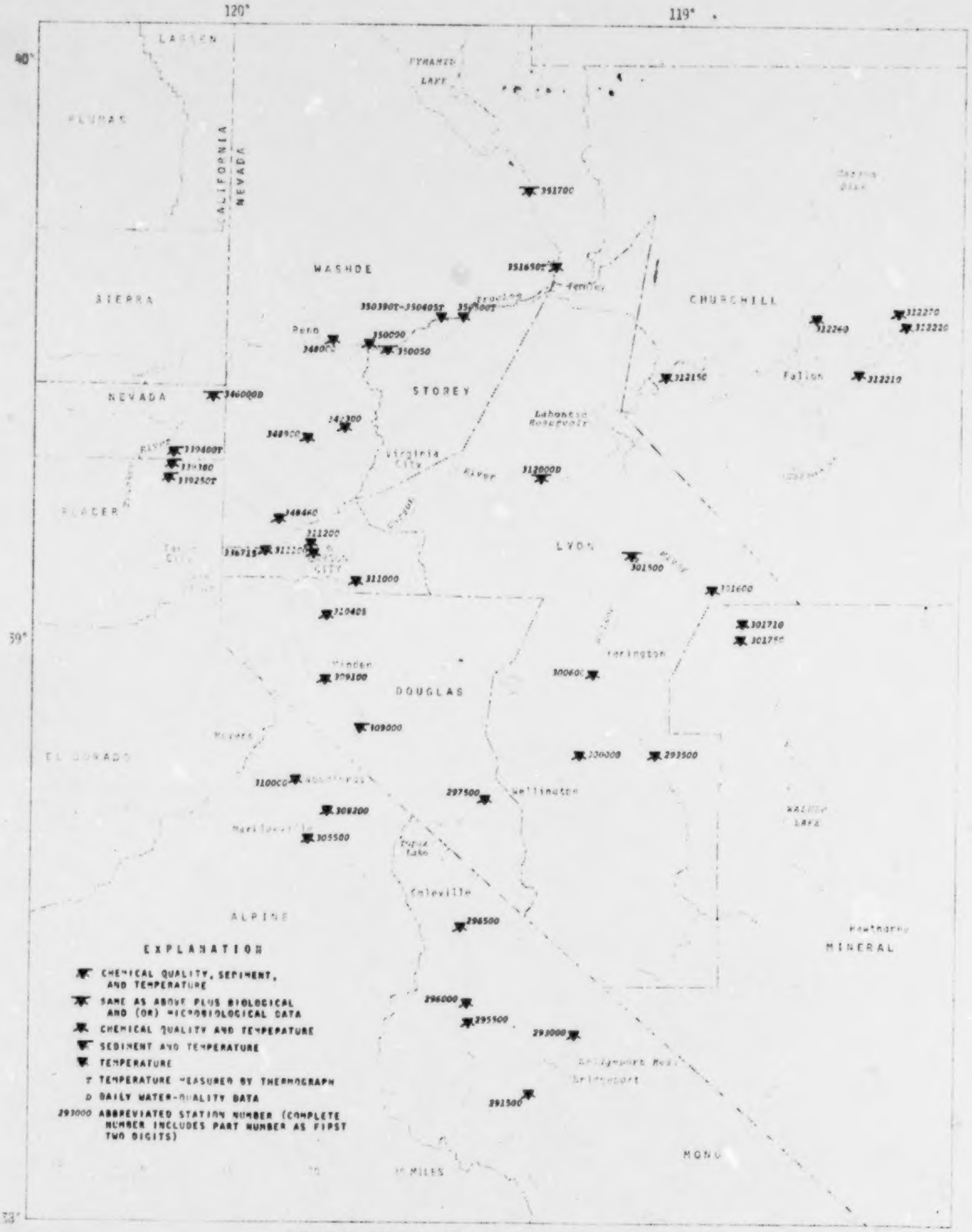
120°
119°
40°
39°
38°
LASSEN
PLUMAS
SIERRA
NEVADA
PLACER
EL DORADO
ALPINE
MONO
MINERAL
CALIFORNIA
NEVADA
WASHOE
STOREY
CHURCHILL
LYON
DOUGLAS
PYRAMID LAKE
Reno
Virginia City
Lahontan Reservoir
Fallon
Fernley
Truckee
River
Carson
CITY
Minden
Yerington
Wellington
Topaz Lake
Coleville
Walker Lake
Hawthorne
Bridgeport Res.
Bridgeport
Markleeville
Woodfords
Meyers
351700
351650T
350390T-350405T
350500T
350090
350050
348000
346000D
348300
348920
339400T
339380
339250T
348460
311200
336715
312200
311000
310405
309100
309000
310000
308200
305500
312000D
301500
301600
301710
301750
300600
300000
293500
297500
296500
296000
295500
293000
291500
312270
312240
312220
312150
312210
EXPLANATION
CHEMICAL QUALITY, SEDIMENT, AND TEMPERATURE
SAME AS ABOVE PLUS BIOLOGICAL AND (OR) MICROBIOLOGICAL DATA
CHEMICAL QUALITY AND TEMPERATURE
SEDIMENT AND TEMPERATURE
TEMPERATURE
T TEMPERATURE MEASURED BY THERMOGRAPH
D DAILY WATER-QUALITY DATA
293000 ABBREVIATED STATION NUMBER (COMPLETE NUMBER INCLUDES PART NUMBER AS FIRST TWO DIGITS)
10
20
30 MILES

FIGURE 7.--STREAM-QUALITY SITES IN WEST-CENTRAL NEVADA.

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from waterline of Lake Mead at elevation 1,221 ft (372.2 m) above mean sea level.

DRAINAGE AREA.--5,090 mi² (13,200 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft (537.570 m) above mean sea level, datum of 1929. Prior to May 28, 1933, nonrecording gage at same site and May 28, 1933, to Nov. 7, 1939, at site 300 ft (90 m) downstream, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at site 300 ft (90 m) downstream at datum 2.00 ft (0.610 m) higher. Apr. 1, 1942, to Sept. 30, 1970, water-stage recorder at site 300 ft (90 m) downstrerm at same datum.

REMARKS.--Records good. Diversion above station for irrigation of about 23,200 acres (93.9 km²).

AVERAGE DISCHARGE.--48 years, 220 ft³/s (6,230 m³/s), 159,400 acre-ft/yr (197 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft³/s (997 m³/s) Dec. 6, 1966, gage height, 15.66 ft (4.773 m), site then in use, from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 38 ft³/s (1.08 m³/s) May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 2	1800	*7140	202	10.97	3.344
July 24	0200	5090	144	9.82	2.993
Aug. 24	0130	6120	173	10.42	3.176

Minimum daily discharge, 51 ft³/s (1.44 m³/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	107	154	128	139	96	77	59	56	71	60	61
2	1940	115	136	128	136	94	83	58	56	71	60	59
3	1240	107	125	145	131	94	87	54	58	71	60	61
4	425	100	115	154	131	89	73	56	58	70	59	59
5	236	98	120	136	128	89	66	56	58	70	58	63
6	186	91	128	117	128	85	64	53	58	94	59	58
7	142	87	131	120	128	85	63	54	58	70	60	59
8	107	105	110	115	125	89	61	54	56	68	62	61
9	105	100	105	110	125	98	61	58	285	64	61	59
10	100	98	103	103	122	79	63	56	827	62	63	61
11	103	100	103	122	125	91	63	54	163	59	63	70
12	87	100	110	160	115	107	64	53	83	56	61	79
13	87	107	110	157	115	96	63	53	71	58	63	105
14	85	103	107	157	115	81	64	56	70	60	64	178
15	73	110	107	157	112	83	63	107	70	60	64	160
16	75	139	112	157	112	75	63	83	69	60	68	68
17	73	133	105	154	115	77	66	66	69	60	71	59
18	73	128	110	154	117	75	68	64	68	60	299	63
19	77	125	103	151	112	75	68	61	68	60	94	58
20	77	115	100	151	112	77	66	56	67	63	68	54
21	87	120	96	154	110	68	66	53	67	61	59	54
22	96	120	96	170	110	66	66	52	66	60	58	51
23	107	107	105	166	117	68	68	52	66	60	58	53
24	105	107	125	154	110	68	66	54	64	1590	910	53
25	110	115	122	148	110	77	64	644	66	166	307	56
26	98	115	120	142	112	128	64	535	68	71	125	54
27	98	133	122	142	105	110	75	183	68	63	85	56
28	103	133	128	140	103	91	63	107	71	60	75	59
29	105	145	117	140	---	79	64	75	73	60	73	58
30	112	148	117	140	---	75	61	64	71	60	66	58
31	110	---	131	142	---	79	---	61	---	60	63	---
TOTAL	6492	3411	3573	4414	3320	2646	2003	3091	3048	3618	3396	2047
MEAN	209	114	115	142	119	85.4	66.8	99.7	102	117	110	68.2
MAX	1940	148	154	170	139	128	87	644	827	1590	910	178
MIN	70	87	96	103	103	68	61	52	56	56	58	51
AC-FT	12880	6770	7090	8760	6590	5250	3970	6130	6050	7180	6740	4060

CAL YR 1976 TOTAL 48995 MEAN 134 MAX 1940 MIN 44 AC-FT 97180
WTR YR 1977 TOTAL 41059 MEAN 112 MAX 1940 MIN 51 AC-FT 81440

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1947 to current year.
CHEMICAL ANALYSES: July 1949 to September 1969, once-daily (composited); October 1969 to current year, monthly.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: October 1947 to current year, once-daily.
SEDIMENT DATA: October 1947 to September 1968, once daily.

REMARKS.--Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north bank is generally somewhat more dilute than average; monthly data collected during June 1975 - September 1976 indicate that specific conductance off north bank was 93 to 100 percent of stream-wide average (range of discharge, 60-230 ft^3/s). This doubtless affects specific conductance of daily samples, which are collected off north bank. Water temperature characteristically shows little or no variation from bank to bank. Much of day-to-day fluctuation in water temperature prior to August 1975 was due to measurement at different times of day (rather than at about the same time each day). Detailed sampling information for period since June 1975 is available from U.S. Geol. Survey office, Carson City, Nevada.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 4,650 micromhos Aug. 21, 1966; minimum, 685 micromhos May 12, 1973.
WATER TEMPERATURES: Maximum, 33.5°C July 7, 1953; minimum, 2.0°C Jan. 4, 1949, Jan. 4, 1950, Jan. 4, 5, 1971.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 247,000 mg/L Aug. 14, 1964; minimum, 40 mg/L June 16, 20, 1962.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 3,580 micromhos July 7; minimum, 2,100 micromhos Oct. 3.
WATER TEMPERATURES: Maximum, 32.0°C July 15, 31; minimum, 6.5°C Nov. 27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT										
27...	1030	130	3290	7.8	18.5	--	--	--	1300	350
NOV										
24...	1030	98	3410	8.0	15.5	--	--	--	1300	350
DEC										
30...	1200	100	3130	8.0	10.5	--	--	--	1100	300
JAN										
26...	1130	154	2800	8.0	12.5	--	--	--	1000	280
FEB										
23...	1215	123	2980	8.5	15.0	--	--	--	1100	290
MAR										
30...	1200	79	3380	8.0	19.0	--	--	--	1300	350
APR										
27...	1400	66	3370	8.0	26.0	--	--	--	1400	380
MAY										
23...	1230	1060	2580	7.7	17.0	--	--	--	1100	360
JUN										
10...	1215	297	3050	7.7	21.5	--	--	--	--	--
23...	1100	66	3450	7.8	28.0	--	--	--	1500	400
JUL										
28...	1200	79	3530	7.6	29.5	--	--	--	1500	400
AUG										
24...	0830	E788	3480	7.4	24.0	--	--	--	1800	620
SEP										
20...	1430	57	3350	7.8	26.0	7.6	14	110	1400	360
28...	0930	64	3420	7.9	23.0	--	--	--	1500	390

E: ESTIMATED.

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
OCT										
27...	100	310	3.8	33	288	0	1100	430	--	19
NOV										
24...	99	280	3.4	29	325	0	980	390	--	18
DEC										
30...	93	260	3.4	26	376	0	910	370	--	20
JAN										
26...	82	260	3.5	22	334	0	810	360	--	19
FEB										
23...	92	280	3.7	26	323	0	870	390	--	18
MAR										
30...	110	280	3.3	30	327	0	1100	400	--	19
APR										
27...	120	270	3.1	32	310	0	1200	380	--	19
MAY										
23...	60	170	2.2	21	220	0	1000	210	--	9.4
JUN										
10...	--	140	--	--	--	--	1700	120	--	--
23...	110	290	3.3	30	300	0	1200	400	--	20
JUL										
28...	120	280	3.2	31	320	0	1200	400	--	19
AUG										
24...	70	170	1.7	23	320	0	1600	230	--	16
SEP										
20...	130	240	2.8	33	230	0	1200	400	1.0	20
28...	120	280	3.2	33	300	0	1200	400	--	20

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT									
27...	--	2490	874	.64	.01	--	--	--	.01
NOV									
24...	--	2310	611	--	--	--	--	--	--
DEC									
30...	--	2160	583	--	--	--	--	--	--
JAN									
26...	--	2000	832	.52	.01	--	--	--	.01
FEB									
23...	--	2130	707	--	--	--	--	--	--
MAR									
30...	--	2450	523	--	--	--	--	--	--
APR									
27...	--	2560	456	.25	.03	--	--	--	.04
MAY									
23...	--	.940	5550	--	--	--	--	--	--
JUN									
10...	--	--	--	--	--	--	--	--	--
23...	--	2600	463	--	--	--	--	--	--
JUL									
28...	--	2610	557	.28	.01	--	--	--	.00
AUG									
24...	--	2890	E6150	--	--	--	--	--	--
SEP									
20...	2690	2500	417	--	--	.27	.35	.20	--
28...	--	2590	448	--	--	--	--	--	--

E: ESTIMATED.

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
SEP								
20...	1430	9	5	400	1100	10	0	10

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
SEP									
20...	10	<50	0	10	0	1500	10	100	0

DATE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP								
20...	90	30	.0	.0	0	1	20	10

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3240	3330	3020	2830	2830	3160	3300	3220	3340	3320	3330	3390
2	3120	3340	3070	2830	2850	3200	3360	3290	3310	3370	3330	3380
3	2100	3350	3120	2760	2790	3090	3270	3400	3330	3290	3340	3390
4	3280	3400	2980	2770	2810	3260	3230	3310	3310	3270	3320	3380
5	3360	3390	3110	3030	2810	3270	3320	3440	3270	3550	3320	3380
6	3330	3360	2960	2910	2770	3290	3340	3440	3310	3490	3340	3270
7	3290	3380	2950	2950	2850	3330	3330	3390	3260	3580	3320	3380
8	3390	3250	3040	2990	2820	3290	3350	3390	3300	3390	3290	3390
9	3390	3220	3090	3070	2820	3230	3370	3180	3300	3320	3320	3390
10	3440	3230	3070	3050	2830	3320	3340	3260	3250	3390	3330	3330
11	3390	3180	3120	2830	2880	3390	3340	3280	3360	3330	3240	3350
12	3470	3190	3120	2870	2920	3200	3310	3340	3360	3390	3360	3490
13	3470	3220	3140	2770	2920	3220	3350	3300	3220	3420	3360	3270
14	3410	3170	3170	2770	2900	3360	3330	3280	3370	3370	3370	2980
15	3360	2310	3160	2590	2940	3420	3290	2830	3250	3380	3270	3090
16	3380	2960	3220	2770	2900	3420	3350	3170	3350	3320	3230	3450
17	3390	2950	3220	2760	2900	3290	3370	3400	3370	3380	3250	3370
18	3470	2960	3180	2810	2890	3380	3300	3410	3370	3370	2890	3400
19	3410	3040	3210	2810	2970	3390	3330	3370	3370	3320	3030	3300
20	3470	3090	3150	2760	2900	3370	3330	3350	3370	3380	3330	3390
21	3390	3050	3240	2740	2990	3320	3330	3400	3370	3520	3260	3380
22	3530	3070	3250	2650	3030	3330	3320	3370	3360	3320	3230	3340
23	3560	3100	3270	2690	2970	3380	3330	3310	3370	3320	3330	3390
24	3490	3120	3090	2760	2980	3330	3330	3260	3380	3170	3230	3400
25	3470	3100	3090	2730	3070	3320	3330	2120	3380	3440	3030	3330
26	3470	3210	3060	2730	3010	3000	3360	2110	3370	3470	3330	3380
27	3450	3080	3010	2830	3060	2990	3380	2610	3370	3390	3380	3340
28	3390	3040	3010	2820	3150	3190	3360	3220	3360	3390	3330	3340
29	3440	3070	3050	2820	---	3280	3330	3220	3370	3430	3340	3350
30	3410	3090	3110	2840	---	3360	3380	3320	3380	3430	3390	3370
31	3380	---	3000	2800	---	3380	---	3310	---	3390	3390	---
MEAN	3359	3141	3105	2817	2912	3282	3332	3203	3336	3383	3284	3346
MAX	3560	3400	3270	3070	3150	3420	3380	3440	3380	3580	3390	3490
MIN	2100	2310	2950	2590	2770	2990	3230	2110	3220	3170	2890	2980

WTR YR 1977 MEAN 3210 MAX 3580 MIN 2100

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	19.0	12.0	13.0	14.5	17.0	18.0	23.0	27.5	29.0	31.5	29.0
2	19.0	19.0	14.0	13.0	15.5	16.0	20.0	26.0	28.0	26.0	31.5	27.5
3	17.0	19.5	13.5	13.0	15.5	17.0	20.5	23.5	28.5	26.5	30.0	29.0
4	19.0	19.0	12.5	11.5	14.0	16.0	23.0	26.0	30.0	27.0	31.0	30.0
5	20.5	19.0	12.5	13.5	15.5	20.0	25.0	26.0	27.5	27.5	28.5	29.5
6	21.0	20.0	13.0	13.0	16.0	20.0	24.5	24.0	28.0	28.0	28.5	28.5
7	20.5	19.0	12.0	12.5	15.5	19.5	25.0	25.5	26.5	28.5	29.0	28.0
8	21.5	18.5	15.0	12.0	15.0	21.0	24.0	26.0	23.5	27.5	31.0	27.5
9	21.5	18.5	15.0	11.0	15.5	18.0	23.0	18.0	22.5	27.5	31.0	28.0
10	22.5	18.5	15.0	10.0	15.5	16.5	25.5	24.5	26.0	27.5	31.0	28.0
11	24.5	17.5	14.0	10.0	17.0	19.0	24.5	26.0	27.5	29.5	28.5	26.5
12	24.5	17.0	14.5	10.0	17.0	17.5	25.5	22.5	28.0	29.5	30.5	28.0
13	23.0	18.0	15.0	10.0	18.0	17.5	23.0	22.0	27.5	29.5	30.0	27.0
14	23.0	17.0	15.0	12.0	17.5	18.0	23.5	25.0	26.5	31.5	31.0	24.0
15	23.5	16.0	15.0	12.0	18.0	18.0	23.0	22.0	28.0	32.0	28.0	26.0
16	23.5	16.0	14.5	11.5	18.0	18.0	25.0	21.0	28.5	30.5	27.5	23.5
17	23.0	16.5	14.5	12.0	18.0	20.0	24.0	21.0	26.0	30.5	29.0	26.5
18	21.0	15.5	14.0	14.0	18.0	21.5	23.0	25.0	26.0	31.0	29.0	25.5
19	20.5	17.0	14.0	14.0	18.5	20.0	22.5	25.5	26.0	29.0	30.5	24.0
20	19.0	16.5	14.0	14.0	19.0	22.5	24.5	26.0	27.5	29.0	30.0	25.0
21	20.5	16.5	13.0	13.0	18.0	23.5	25.0	23.0	27.5	29.5	29.5	25.0
22	20.0	16.0	14.0	14.5	16.5	23.5	27.0	23.0	28.5	28.0	29.0	22.5
23	20.5	16.0	14.0	15.5	16.0	18.0	27.5	21.0	29.5	25.0	29.5	24.5
24	21.0	16.5	10.5	13.5	15.5	18.0	26.5	20.0	28.5	27.5	27.5	25.0
25	20.5	16.5	11.0	13.5	15.0	19.0	28.0	20.0	30.0	30.0	27.0	25.0
26	18.0	13.0	11.0	14.0	16.0	20.0	23.0	22.5	30.0	30.5	26.0	24.5
27	19.0	6.5	10.5	14.0	18.5	19.0	23.0	24.5	29.5	31.0	27.5	27.5
28	18.5	9.0	11.5	14.5	17.0	20.5	26.5	27.0	30.5	31.0	28.0	27.5
29	19.0	9.0	11.5	14.0	---	19.5	24.5	27.0	29.5	29.5	29.5	25.0
30	19.0	11.0	11.0	14.5	---	22.0	23.0	29.5	31.0	31.0	28.0	25.0
31	19.0	---	10.0	14.5	---	22.0	---	29.0	---	32.0	27.5	---
MEAN	20.8	16.2	13.1	12.8	16.5	19.2	24.0	24.0	27.8	29.0	29.2	26.4
MAX	24.5	20.0	15.0	15.5	19.0	23.5	28.0	29.5	31.0	32.0	31.5	30.0
MIN	17.0	6.5	10.0	10.0	14.0	16.0	18.0	18.0	22.5	25.0	26.0	22.5

WTR YR 1977 MEAN 21.6 MAX 32.0 MIN 6.5

09415600 PAHRANAGAT VALLEY TRIBUTARY NEAR HIKO, NV

LOCATION.--Lat 37°29'20", long 115°20'10", in NE¼ sec.27, T.5 S., R.59 E., Lincoln County, Hydrologic Unit 15010011, on left bank tributary on upstream side of culvert on State Highway 25, 10 mi (16 km) southwest of Hiko, and 47 mi (76 km) west of Caliente.

DRAINAGE AREA.--17 mi^2 (44 km^2), approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 4,800 ft (1,463 m) from AMS map. Crest-stage gage only Oct. 1, 1963, to May 5, 1964, at same site and datum.

REMARKS.--No flow since Sept. 18, 1972. No flow exists in channel except at times of heavy rainfall or rapid snowmelt. Discharge measurements or observation of no flow made generally once a month.

AVERAGE DISCHARGE.--14 years, 0.002 ft^3/s (0.0001 m^3/s), 1.4 acre-ft/yr (1,730 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162 ft^3/s (4.59 m^3/s) June 22, 1972, gage height, 9.99 ft (3.045 m), from slope-area measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--No flow for entire year.

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE¼SE¼ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank 0.1 mi (0.2 km) upstream from Battleship Wash, 0.8 mi (1.3 km) downstream from Home Ranch, 5 mi (8 km) northwest of Moapa, and 9.5 mi (15.3 km) upstream from Meadow Valley Wash.

DRAINAGE AREA.--3,820 mi^2 (9,890 km^2), approximately, of which about 40 mi^2 (104 km^2) contributes directly to surface runoff.

PERIOD OF RECORD.--July 1913 to September 1915, April 1916 to September 1918, June 1928 to October 1931, April to July 1932, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for January 1904 to December 1906 (gage heights only), 1908-9 (discharge measurements only), and April to October 1910 not equivalent owing to large difference in drainage area.

REVISED RECORDS.--WSP 1243: 1914 (M). WSP 1343: 1950 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 1,710 ft (521 m), from river-profile map. October 21, 1944 to September 30, 1948, water-stage recorder at datum 0.08 ft (0.024 m) higher.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 2-21, which are poor. Diversions for irrigation above station. Beginning Oct. 1, 1976, records do not include part-time diversion about 100 ft (30.5 m) upstream, for cooling of powerplant downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi (1.4 to 4.0 km) upstream from station. Flood peaks may be dampened by Arrow Canyon Dam.

AVERAGE DISCHARGE.--39 years (1913-15, 1916-18, 1928-31, 1944-76), 41.5 ft^3/s (1.175 m^3/s), 32,670 acre-ft/yr (40.3 hm^3/yr), adjusted for flow which bypasses stream due to pump about 100 ft upstream which diverts water part of the time for powerplant cooling.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft^3/s (144 m^3/s) Sept. 7, 1967, gage height, 12.35 ft (3.764 m); minimum, 27 ft^{3}s (0.76 m^3/s) Nov. 26, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 428 ft^3/s (12.1 m^3/s) Oct. 3, gage height, 3.96 ft (1.207 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	37	38	40	41	37	39	33	36	33	33	31
2	121	39	38	41	44	37	39	38	36	34	35	29
3	218	37	38	46	43	37	38	41	35	33	34	28
4	136	33	39	41	41	37	38	41	35	33	34	27
5	87	31	38	41	41	36	37	40	36	34	35	28
6	68	32	39	42	41	38	35	37	36	34	33	28
7	40	32	39	44	41	43	35	40	36	33	33	28
8	37	32	40	41	40	40	35	41	37	33	33	28
9	36	33	39	41	41	36	35	42	36	34	34	29
10	36	32	39	41	41	37	34	42	33	33	34	30
11	37	32	39	41	40	35	34	43	34	34	34	32
12	36	32	40	41	36	34	36	43	34	34	35	31
13	35	32	39	41	34	35	36	42	32	35	34	31
14	33	36	38	41	34	42	36	41	32	35	33	31
15	35	39	38	42	34	40	36	39	33	33	33	32
16	33	36	39	40	37	35	36	37	33	34	34	31
17	31	36	39	39	36	35	35	37	34	34	67	31
18	32	36	39	38	36	37	35	37	34	34	30	32
19	33	36	39	38	35	37	35	37	36	33	31	32
20	36	39	39	38	36	38	36	37	37	32	30	32
21	35	42	39	39	36	41	35	40	37	34	30	31
22	35	40	43	40	36	38	35	40	35	33	30	30
23	36	36	44	39	37	37	36	40	35	33	31	29
24	37	37	43	39	38	38	41	41	35	33	32	29
25	37	38	39	40	37	41	41	38	34	33	31	30
26	36	37	37	40	37	39	35	36	35	34	30	30
27	36	37	42	39	38	39	35	37	34	35	29	30
28	36	38	40	40	38	41	34	40	35	34	29	29
29	36	38	39	42	---	38	33	39	36	34	30	30
30	35	39	40	40	---	41	34	39	35	34	31	31
31	34	---	40	41	---	41	---	37	---	33	32	---
TOTAL	1561	1074	1222	1256	1069	1180	1079	1215	1046	1042	1034	900
MEAN	50.4	35.8	39.4	40.5	38.2	38.1	36.0	39.2	34.9	33.6	33.4	30.0
MAX	218	42	44	46	44	43	41	43	37	35	67	32
MIN	31	31	37	38	34	34	33	33	32	32	29	27
AC-FT	3100	2130	2420	2490	2120	2340	2140	2410	2070	2070	2050	1790

CAL YR 1976 TOTAL 15347 MEAN 41.9 MAX 400 MIN 31 AC-FT 30440
WTR YR 1977 TOTAL 13678 MEAN 37.5 MAX 218 MIN 27 AC-FT 27130

09418200 MATHEWS CANYON WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°29'55", long 114°13'20", in E½ sec.24, T.5 S., R.69 E., Lincoln County, Hydrologic Unit 15010013, on right bank at downstream end of stilling basin at outlet of conduit through flood-control dam, 2.5 mi (4.0 km) upstream from mouth, and 17 mi (27 km) southeast of Caliente.

DRAINAGE AREA.--34 mi^2 (88 km^2), approximately (by Corps of Engineers, U.S. Army).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,409.10 ft (1,648.694 m) above mean sea level, datum of 1929 (levels by Corps of Engineers).

REMARKS.--No flow since April 24, 1973. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Floods that occur in the drainage above station will be controlled by dam (constructed *in 1958 by the Corps of Engineers,* U.S. Army). Water is released from a 3.5-ft (1.07 m) diameter uncontrolled conduit through dam. Flow over dam spillway will bypass station.

AVERAGE DISCHARGE.--19 years, 0.425 ft^3/s (0.0120 m^3/s), 308 acre-ft/yr (380,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 206 ft^3/s (5.83 m^3/s) Dec. 29, 1965, gage height, 11.85 ft (3.615 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--No flow for the entire year.

09418300 PINE CANYON WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°28'40", long 114°19'00", in sec.30, T.5 S., R.69 E., Lincoln County, Hydrologic Unit 15010013, on left bank 100 ft (30 m) downstream from outlet of flood-control dam, 4 mi (6 km) upstream from mouth, and 14 mi (23 km) southeast of Caliente.

DRAINAGE AREA.--45 mi^2 (117 km^2), approximately (by Corps of Engineers, U.S. Army).

PERIOD OF RECORD--June 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,595 ft (1,705.4 m) (by Corps of Engineers damsite topography).

REMARKS.--No flow since May 16, 1973. There is no flow at this station except following heavy rainstorms or during periods of rapid snowmelt. Floods that occur in the drainage above the station will be controlled by dam (constructed in 1958 by the Corps of Engineers, U.S. Army). Water is released from a 3.5-ft (1.07 m) diameter uncontrolled conduit through dam.

AVERAGE DISCHARGE.--19 years, 1.03 ft^3/s, 1.03 ft^3/s (0.0292 m^3/s), 746 acre-ft/yr (92,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 238 ft^3/s (6.74 m^3/s) Dec. 7, 1966, gage height, 3.92 ft (1.195 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--No flow for entire year.

09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°33'20", long 114°33'50", in NE¼ sec.35, T.4 S., R.66 E., Lincoln County, Hydrologic Unit 15010013, on right bank 0.5 mi (0.8 km) east of Etna, 4.5 mi (7.2 km) southwest of Caliente, and 6 mi (10 km) downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi² (4,325 km²).

PERIOD OF RECORD.--January 1951 to September 1960, November 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), by barometer. Prior to June 16, 1955, at site 1.8 mi (2.9 km) downstream at different datum.

REMARKS.--Records fair except for period of no gage height record, Feb. 14 to March 28, which are poor. Several diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--21 years (1951-60, 1965-77), 10.4 ft³/s (0.295 m³/s), 7,530 acre-ft/yr (9.28 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s (42.5 m³/s) June 30, 1956, gage height, 8.0 ft (2.44 m), from floodmarks; no flow July 26-28, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 263 ft³/s (7.45 m³/s) Oct. 2, gage height, 4.94 ft (1.506 m), no peak above base of 300 ft³/s (8.50 m³/s); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	2.7	3.0	3.2	5.8	4.1	4.2	2.8	2.2	1.7	1.2	.50
2	80	2.8	3.5	3.5	5.0	3.8	4.6	2.8	2.0	.93	1.1	.64
3	17	3.0	4.2	5.4	5.8	3.8	3.5	2.6	1.8	.81	1.0	.57
4	11	3.6	4.5	7.0	7.0	3.9	3.5	2.5	1.7	.71	1.2	.78
5	6.2	3.7	4.8	6.2	7.4	3.9	3.4	2.3	1.6	.57	2.2	.92
6	5.4	3.7	4.5	5.4	7.4	4.1	3.6	2.1	1.6	.65	36	1.1
7	4.6	3.5	3.8	5.0	7.0	3.8	3.3	2.3	1.6	.64	3.5	1.1
8	4.2	4.3	2.8	4.2	5.8	3.5	3.3	2.5	4.4	.72	.47	1.1
9	3.9	4.1	2.8	3.8	8.2	3.4	3.3	7.6	5.0	.72	.38	1.3
10	3.8	4.2	3.0	3.2	5.8	3.5	3.1	16	4.3	.74	.34	.99
11	3.8	4.3	3.2	3.2	5.4	3.5	3.3	13	4.0	.84	.34	1.1
12	3.7	4.2	3.2	3.0	5.4	3.6	5.1	6.8	3.1	.88	.35	1.1
13	3.2	4.5	3.8	3.0	5.4	3.7	3.2	5.2	2.4	.89	.37	1.1
14	2.8	4.3	3.8	3.2	5.4	3.5	3.5	5.9	2.1	.99	.39	1.3
15	2.1	5.2	3.8	3.5	5.5	3.4	3.4	4.6	1.8	1.0	.42	1.6
16	2.5	5.4	3.8	3.5	5.5	3.2	3.2	4.9	1.7	1.1	.46	1.7
17	2.6	4.5	3.5	3.8	5.5	3.1	3.0	5.6	1.6	1.1	.99	1.6
18	2.6	4.5	3.5	4.2	5.2	3.0	3.0	6.2	1.6	1.1	1.8	1.6
19	2.7	4.3	3.5	5.8	5.0	2.8	2.9	5.1	1.6	1.1	5.4	1.7
20	2.8	4.2	2.8	5.8	4.7*	2.9	3.2	3.9	1.5	1.2	3.4	1.3
21	2.9	4.2	2.8	6.6	4.5	3.1	3.3	3.7	1.5	1.2	1.7	1.2
22	3.1	4.4	2.5	22	4.4	3.3	3.1	3.7	1.4	1.3	1.5	1.3
23	3.1	4.8	2.5	21	4.4	3.1	3.3	3.5	1.4	1.2	1.3	1.8
24	3.1	4.8	2.8	18	4.4	2.9	3.2	3.8	1.5	1.2	7.9	2.5
25	3.2	4.8	2.8	14	4.5	2.8	3.0	4.6	1.5	1.2	29	2.5
26	2.2	5.0	2.8	13	4.5	2.6	3.0	6.3	1.4	1.1	6.0	2.5
27	2.8	4.0	3.0	12	4.5	2.4	3.0	6.0	1.9	1.1	1.3	2.4
28	2.6	3.2	3.0	11	4.3	2.5	2.9	4.4	8.6	1.1	.71	2.5
29	2.4	3.0	3.0	11	---	2.9	3.0	3.5	5.5	1.1	.45	2.6
30	2.5	2.8	3.0	10	---	3.2	3.0	2.8	2.6	1.1	.44	2.8
31	2.7	---	3.0	8.6	---	3.6	---	2.4	---	1.1	.45	---
TOTAL	201.5	122.0	103.0	233.1	153.7	102.9	100.4	149.4	74.9	31.09	112.06	45.20
MEAN	6.50	4.07	3.32	7.52	5.49	3.32	3.35	4.82	2.50	1.00	3.61	1.51
MAX	80	5.4	4.8	22	8.2	4.1	5.1	16	8.6	1.7	36	2.8
MIN	2.1	2.7	2.5	3.0	4.3	2.4	2.9	2.1	1.4	.57	.34	.50
AC-FT	400	242	204	462	305	204	199	296	149	62	222	90

CAL YR 1976 TOTAL 2146.24 MEAN 5.86 MAX 146 MIN .87 AC-FT 4260
WTR YR 1977 TOTAL 1429.25 MEAN 3.92 MAX 80 MIN .34 AC-FT 2830

09419000 MUDDY RIVER NEAR GLENDALE, NV

LOCATION.--Lat 36°38'35", long 114°32'20", in SW¼ sec.7, T.15 S., R.67 E., Clark County, Hydrologic Unit 15010012, on left bank at the Narrows, 150 ft (50 m) downstream from Weiser Wash, 2 mi (3 km) southeast of Glendale, 2.4 mi (3.9 km) downstream from Meadow Valley Wash, and 4.5 mi (7.2 km) northwest of Logandale.

DRAINAGE AREA.--6,780 mi² (17,600 km²), approximately, of which about 3,000 mi² (7,800 km²) contributes directly to surface runoff.

PERIOD OF RECORD.--January 1904 to December 1906 (gage heights only) and April to October 1910 (published as "near Moapa"), July 1913 to February 1914 (published as "near Logan"), February 1950 to current year.

REVISED RECORDS.--WSP 1363: 1906 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,460 ft (445 m), from river-profile map. Jan. 1, 1904, to Dec. 31, 1906, nonrecording gage just upstream at different datum. Apr. 22, 1910, to Feb. 21, 1914, nonrecording gage and rating flume at lower end of the Narrows, 1.2 mi (1.9 km) downstream at different datum.

REMARKS.--Records good except for period of no gage height record, Aug. 17 to Sept. 8, which are poor. Diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--27 years (1950-77), 45.2 ft³/s (1.280 m³/s), 32,750 acre-ft/yr (40.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,380 ft³/s (209 m³/s) Nov. 6, 1960, gage height, 20.36 ft (6.206 m) from rating curve extended above 460 ft³/s (13.0 m³/s) on basis of slope-area measurements at gage heights 8.42 ft (2.566 m) and 20.36 ft (6.206 m); minimum, 7.6 ft³/s (0.22 m³/s) Sept. 29, 1964, result of temporary storage upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30 ft (9.1 m) Mar. 26, 1906 (datum then in use), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 210 ft³/s (5.95 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 3	1545	335	9.49	3.60	1.097
Aug. 17	1615	*1030	29.2	13.80	4.206

Minimum discharge, 22 ft³/s (0.623 m³/s) July 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	36	40	44	43	36	40	30	34	31	28	29
2	148	38	41	43	43	34	37	31	33	29	29	27
3	257	37	40	58	45	35	37	36	32	27	29	26
4	168	36	45	46	42	35	38	35	32	27	30	25
5	106	33	44	44	41	36	37	35	33	27	32	26
6	80	31	44	44	41	37	35	34	33	29	31	26
7	48	35	43	49	41	39	36	36	31	27	28	26
8	41	35	43	46	40	39	36	40	32	26	28	28
9	40	36	43	45	41	34	36	38	34	27	26	26
10	40	35	41	45	40	35	37	40	31	27	28	36
11	41	36	40	44	40	34	36	41	30	27	27	30
12	40	36	42	44	39	34	34	40	31	27	28	32
13	34	35	41	44	36	32	33	41	30	25	28	30
14	36	36	39	43	36	36	32	40	29	26	27	32
15	38	40	39	46	36	39	32	39	29	25	28	32
16	36	38	39	47	38	35	32	37	30	25	29	32
17	34	39	40	43	38	33	32	34	30	27	417	30
18	34	39	39	43	37	34	31	32	30	28	105	31
19	35	39	42	42	37	35	31	33	32	27	32	32
20	38	38	41	42	37	36	31	33	33	25	31	33
21	38	41	41	42	38	37	34	36	33	26	28	33
22	36	42	42	46	38	38	34	37	31	28	28	30
23	35	38	45	42	38	35	33	36	31	28	29	30
24	36	37	46	42	39	34	35	38	29	30	30	30
25	38	41	46	43	39	37	37	39	28	29	29	29
26	37	41	46	43	38	37	35	35	29	28	28	29
27	37	42	47	42	38	36	33	35	28	30	27	29
28	36	43	46	41	38	36	33	36	28	27	27	28
29	37	43	43	42	---	35	30	37	29	26	28	26
30	36	41	43	43	---	35	29	36	30	27	29	29
31	36	---	43	43	---	39	---	37	---	29	30	---
TOTAL	1751	1137	1314	1371	1097	1107	1026	1127	925	847	1354	882
MEAN	56.5	37.9	42.4	44.2	39.2	35.7	34.2	36.4	30.8	27.3	43.7	29.4
MAX	257	43	47	58	45	39	40	41	34	31	417	36
MIN	34	31	39	41	36	32	29	30	28	25	26	25
AC-FT	3470	2260	2610	2720	2180	2200	2040	2240	1830	1680	2690	1750

CAL YR 1976 TOTAL 15706 MEAN 42.9 MAX 257 MIN 29 AC-FT 31160
WTR YR 1977 TOTAL 13938 MEAN 38.2 MAX 417 MIN 25 AC-FT 27650

09419610 LEE CANYON NEAR CHARLESTON PARK, NV

LOCATION.--Lat 36°20'25", long 115°39'00", in NE¼ sec.35, T.18 S., R.56 E., Clark County, Hydrologic Unit 15010015, in Toiyabe National Forest, on right bank 50 ft (15 m) above bridge on Deer Creek Springs road, just south of junction with State Highway 52, and 5.5 mi (8.8 km) north of Charleston Park.

DRAINAGE AREA.--9.20 mi² (23.83 km²).

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder with rain-gage attachment. Altitude of gage is 7,820 ft (2,384 m) from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum. Prior to May 16, 1973, on right bank at datum 0.14 ft (0.043 m) higher.

REMARKS.--No flow exists in this channel except at times of heavy rainfall or rapid snowmelt. Discharge measurements or observation of no flow are generally made once a month.

AVERAGE DISCHARGE.--14 years, 0.036 ft³/s (0.0010 m³/s), 26 acre-ft/yr (32,100 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft³/s (24.9 m³/s) July 28, 1969, gage height, 3.60 ft (1.097 m), on basis of slope-area measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80 ft³/s (2.27 m³/s) Sept. 10, gage height, 1.10 ft (0.335 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.1	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	3.10	.00
MEAN	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.10	.000
MAX	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	3.1	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.2	.00	.00	.00	6.1	.00

CAL YR 1976 TOTAL 8.60 MEAN .023 MAX 5.3 MIN .00 AC-FT 17
WTR YR 1977 TOTAL 3.18 MEAN .009 MAX 3.1 MIN .00 AC-FT 6.3

09419650 LAS VEGAS WASH AT NORTH LAS VEGAS, NV

LOCATION.--Lat 36°12'40", long 115°06'20", in SW¼NE¼ sec.13, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank 100 ft (30 m) upstream from U.S. Highway 91 and 3.5 mi (5.6 km) northeast of Fremont Street, Las Vegas.

DRAINAGE AREA.--1,300 mi^2 (3,370 km^2), approximately, of which about 700 mi^2 (1,810 km^2) contributes directly to surface runoff.

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,850 ft (564 m), from topographic map.

REMARKS.--Records good. No diversion for irrigation above station.

AVERAGE DISCHARGE.--15 years, 0.70 ft^3/s (0.020 m^3/s), 507 acre-ft/yr (625,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,010 ft^3/s (340 m^3/s) July 3, 1975, gage height, 9.64 ft (2.938 m), from slope-area measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft^3/s (30.3 m^3/s) Oct. 2, gage height, 4.06 ft (1.237 m); no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	333	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.94	.00	.00	.50	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	3.1	4.4	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.65	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	2.8	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	203	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.9	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.03	.00	.00	.00	1.1	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.95	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.27	.00	.03	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	361.94	.00	.00	.73	.00	.32	.00	8.77	4.40	.00	204.90	.00
MFAN	11.7	.000	.000	.024	.000	.010	.000	.28	.15	.000	6.61	.000
MAX	333	.00	.00	.50	.00	.27	.00	3.1	4.4	.00	203	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	718	.00	.00	1.4	.00	.6	.00	17	8.7	.00	406	.00

CAL YR 1976 TOTAL 837.54 MEAN 2.29 MAX 333 MIN .00 AC-FT 1660
WTR YR 1977 TOTAL 581.06 MEAN 1.59 MAX 333 MIN .00 AC-FT 1150

09419677 FLAMINGO WASH AT MARYLAND PARKWAY, AT LAS VEGAS, NV

LOCATION.--Lat 36°07'05", long 115°08'15", in SE¼SE¼ sec.15, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank 90 ft (27.4 m) upstream from two 10 x 12 ft box culverts under Maryland Parkway between Flamingo Road and Twain Avenue in Las Vegas.

DRAINAGE AREA.--106 mi^2 (275 km^2), approximately.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,976.6 ft (602.47 m), from Clark County Engineering bench mark.

REMARKS.--Records poor. There is no flow at this station except following heavy rainstorms.

AVERAGE DISCHARGE.--8 years, 0.546 ft^3/s (0.0155 m^3/s), 283 acre-ft/yr (348,900 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,750 ft^3/s (77.9 m^3/s) July 3, 1975, gage height, 11.37 ft (3.466 m), from indirect measurement of peak flow; no flow most of the time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 12, 1969, reached a stage of 7.55 ft (2.301 m), from floodmarks, discharge, 1,500 ft^3/s (42.5 m^3/s), from computation of peak flow through culverts.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft^3/s (30.6 m^3/s) Aug. 17, gage height, 4.55 ft (1.387 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	86	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	105	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
23	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	7.9	.00
24	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	86.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	112.90	.20
MEAN	2.77	.000	.000	.000	.000	.000	.000	.006	.000	.000	3.64	.007
MAX	86	.00	.00	.00	.00	.00	.00	.13	.00	.00	105	.07
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	171	.00	.00	.00	.00	.00	.00	.4	.00	.00	224	.4

CAL YR 1976 TOTAL 394.60 MEAN 1.08 MAX 168 MIN .00 AC-FT 783
WTR YR 1977 TOTAL 199.28 MEAN .55 MAX 105 MIN .00 AC-FT 395

09419700 LAS VEGAS WASH NEAR HENDERSON, NV

LOCATION.--Lat 36°05'20", long 114°59'05", in SE¼SW¼ sec.30, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right bank at upstream end of 4.5-ft (1.37 m) pipe culvert on road, 3.5 mi (5.6 km) north of Henderson, and 6.0 mi (9.7 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m) above mean sea level.

DRAINAGE AREA.--2,125 mi^2 (5,504 km^2), of which 1,518 mi^2 (3,932 km^2) contribute directly to surface runoff. Prior to Apr. 4, 1961, 2,179 mi^2 (5,644 km^2), of which 1,571 mi^2 (4,069 km^2) contributed directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1957 to current year.

REVISED RECORDS.--WSP 1926: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,540 ft (469 m), from topographic map. Prior to Apr. 4, 1961, at site 2.5 mi (4.0 km) downstream at various datums.

REMARKS.--Records fair. In closed basin above station, 2,150 acres (8.70 km^2) are irrigated, mostly by pumping from ground water. Discharge includes waste water from industrial plants and sewage effluent.

AVERAGE DISCHARGE.--20 years, 33.5 ft^3/s (1.005 m^3/s), 25,720 acre-ft/yr (31.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft^3/s (184 m^3/s) July 4, 1975, gage height, 10.67 ft (3.252 m), from floodmarks, from rating curve extended above 3,340 ft^3/s (94.6 m^3/s) on basis of area-velocity computation to determine peak flow; minimum daily, 4.8 ft^3/s (0.14 m^3/s) Aug. 17, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft^3/s (36.2 m^3/s) Aug. 17, gage height, 8.49 ft (2.588 m); minimum, 32 ft^3/s (0.91 m^3/s) Aug. 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	66	72	78	72	70	62	59	58	50	58	60
2	356	68	72	74	70	62	61	63	58	52	57	61
3	320	66	73	77	70	64	64	60	59	57	59	63
4	93	69	68	77	72	66	64	55	60	61	55	62
5	77	68	69	70	71	69	65	56	65	57	55	61
6	70	60	72	70	72	70	66	55	67	54	52	64
7	66	64	73	73	71	66	65	60	66	57	47	57
8	68	64	71	73	64	68	58	63	59	59	45	58
9	69	68	67	73	63	70	60	66	59	52	46	56
10	71	70	66	71	64	70	63	72	64	48	45	54
11	70	68	69	69	62	67	61	62	56	51	45	65
12	68	72	72	70	66	64	65	62	58	51	46	65
13	64	67	72	70	67	68	63	68	58	53	49	62
14	68	63	65	71	67	72	64	75	58	53	51	65
15	66	66	62	71	64	74	61	68	55	52	52	67
16	55	66	63	71	60	75	61	64	55	51	56	68
17	55	68	63	71	64	74	63	63	56	55	316	67
18	58	69	61	73	65	74	62	62	56	53	520	65
19	60	66	65	69	70	69	61	59	60	56	99	65
20	65	66	69	67	72	67	65	55	62	59	78	67
21	67	68	70	70	70	65	66	57	62	61	72	69
22	65	68	68	73	70	65	62	62	61	63	68	69
23	68	61	69	75	61	65	60	67	65	66	73	69
24	68	62	69	74	64	63	60	85	64	66	83	71
25	67	62	70	73	61	68	60	76	64	68	76	73
26	65	68	67	72	66	87	56	68	65	62	71	72
27	66	64	70	70	72	74	56	65	70	63	71	70
28	68	71	74	69	75	73	54	64	64	61	67	69
29	69	72	75	70	---	69	57	59	60	57	63	68
30	65	72	74	73	---	65	58	58	54	56	63	65
31	68	---	74	72	---	65	---	60	---	58	62	---
TOTAL	2657	2002	2144	2229	1885	2138	1844	1968	1818	1762	2600	1947
MEAN	85.7	66.7	69.2	71.9	67.3	69.0	61.5	63.5	60.6	56.8	83.9	64.9
MAX	356	72	75	78	75	87	66	85	70	68	520	73
MIN	55	60	61	67	60	62	54	55	54	48	45	54
AC-FT	5270	3970	4250	4420	3740	4240	3660	3900	3610	3490	5160	3860

CAL YR 1976 TOTAL 24481 MEAN 66.9 MAX 586 MIN 44 AC-FT 48560
WTR YR 1977 TOTAL 24994 MEAN 68.5 MAX 520 MIN 45 AC-FT 49580

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1957 to October 1961, September and October 1962, May 1963 to June 1965, and December 1965 to current year.
CHEMICAL ANALYSES: January 1964 to January 1965, twice-monthly; October 1967 to January 1969, weekly; February 1969 to January 1970 and July 1970 to current year, monthly.
SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice-monthly; October to November 1967 and April 1968 to January 1969, weekly; February 1969 to January 1970 and July 1970 to current year, monthly.
WATER TEMPERATURES: February 1957 to October 1961, monthly; September to October 1962, May 1963 to June 1965, and December 1965 to current year, monthly.
SEDIMENT DATA: January to September 1977, monthly.

REMARKS.--Discharge includes sewage effluent and some waste water from industrial plants.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 6,960 micromhos Sept. 19, 1968; minimum, 2,160 micromhos Sept. 12, 1977.
WATER TEMPERATURES: Maximum, 28.0°C July 30, Sept. 3, 1958; minimum, 2.0°C Jan. 31, 1972.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximun, 73 mg/L Apr. 11, 1977; minimum, 9 mg/L July 12, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT								
12...	1100	74	2640	7.4	17.5	750	170	80
NOV								
15...	1100	65	2780	--	14.0	--	--	--
DEC								
13...	1200	37	2620	--	8.5	--	--	--
JAN								
10...	1100	67	2710	--	7.5	750	170	79
FEB								
14...	1100	70	2770	--	12.5	--	--	--
MAR								
14...	1000	74	2740	--	12.5	--	--	--
APR								
11...	1330	53	2950	--	20.0	840	190	88
MAY								
16...	1015	64	2540	--	16.0	--	--	--
JUN								
14...	1000	65	--	--	20.0	--	--	--
JUL								
12...	1100	60	2550	7.6	21.5	780	180	79
AUG								
15...	1100	56	2620	--	24.5	--	--	--
SEP								
12...	1030	72	2160	--	22.5	--	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT									
12...	260	4.4	24	291	0	660	340	32	1730
NOV									
15...	--	--	--	--	--	--	--	--	--
DEC									
13...	--	--	--	--	--	--	--	--	--
JAN									
10...	290	4.6	19	247	0	660	340	30	1710
FEB									
14...	--	--	--	--	--	--	--	--	--
MAR									
14...	--	--	--	--	--	--	--	--	--
APR									
11...	300	4.5	21	290	0	720	390	29	1880
MAY									
16...	--	--	--	--	--	--	--	--	--
JUN									
14...	--	--	--	--	--	--	--	--	--
JUL									
12...	300	4.7	18	230	0	680	350	30	1750
AUG									
15...	--	--	--	--	--	--	--	--	--
SEP									
12...	--	--	--	--	--	--	--	--	--

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT 12...	346	1.4	.36	11	5	18	5.0	5.0
NOV 15...	--	12	1.5	3.6	--	--	5.1	--
DEC 13...	--	2.0	.50	12	--	--	5.3	--
JAN 10...	309	2.4	.38	16	.00	19	5.3	5.0
FEB 14...	--	2.0	.48	14	--	--	5.7	--
MAR 14...	--	2.1	.47	13	--	--	5.1	--
APR 11...	269	4.8	.17	11	2	18	6.3	4.2
MAY 16...	--	1.1	.56	16	--	--	6.5	--
JUN 14...	--	3.3	.39	13	--	--	6.3	--
JUL 12...	283	.8	.65	10	--	--	3.0	3.0
AUG 15...	--	.7	.44	12	--	--	--	--
SEP 12...	--	.7	.36	12	--	--	6.5	--

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JAN 31...	1000	77	23	4.8
FEB 14...	1100	70	60	11
MAR 14...	1000	74	22	4.4
APR 11...	1330	53	73	10
MAY 16...	1015	64	31	5.4
JUL 12...	1100	60	9	1.5
AUG 15...	1100	56	14	2.1
SEP 12...	1030	72	19	3.7

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE¼SE¼ sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead National Recreation Area, on left bank near mouth, on upstream side of lake shore highway, about 0.8 mi (1.3 km) upstream from high-water line of Lake Mead at elevation 1,221.4 ft (372.28 m) above mean sea level, and 11 mi (18 km) north-northwest of Boulder City.

DRAINAGE AREA.--2,193 mi² (5,680 km²), of which 1,586 mi² (4,108 km²) contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390 m), from topographic map.

REMARKS.--Records good. In closed basin above station, 2,150 acres (8.70 km²) are irrigated, mostly by pumping from ground water. Discharge includes sewage effluent.

AVERAGE DISCHARGE.--8 years, 65.5 ft³/s (1.855 m³/s), 47,450 acre-ft (58.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft³/s (688.8 m³/s) July 4, 1975, gage height, 12.32 ft (3.755 m), from indirect measurement of peak flow; minimum, 14 ft³/s (0.40 m³/s) July 7, 8, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 26, 1964, reached a stage of 7.5 ft (2.29 m), from floodmarks, discharge, 1,050 ft³/s (29.7 m³/s), from indirect measurement of peak flow, and another flood between 1964 and 1969 reached a stage of about 10 ft (3.05 m), from floodmarks, discharge, about 1,700 ft³/s (48.1 m³/s), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of theoretical weir and culvert formulas.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 814 ft³/s (23.1 m³/s) Aug. 18, gage height, 6.98 ft (2.128 m); minimum daily, 55 ft³/s (1.56 m³/s) Aug. 10, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	89	93	99	99	91	79	66	70	59	65	81
2	277	89	91	99	97	86	77	70	70	58	65	74
3	561	84	99	97	97	77	76	70	70	58	66	82
4	187	84	86	101	97	76	77	62	70	62	66	84
5	138	86	88	93	95	82	77	62	74	64	66	82
6	111	82	90	89	95	89	79	62	81	60	62	84
7	98	79	91	89	93	84	77	65	81	62	60	76
8	101	79	89	97	89	84	74	70	76	64	58	74
9	101	82	84	97	86	86	68	76	72	64	56	76
10	104	86	82	93	88	89	74	86	76	58	55	76
11	103	84	88	91	86	89	71	81	68	58	58	82
12	111	89	91	89	86	88	76	70	65	58	58	84
13	105	89	89	89	91	82	76	74	64	59	56	84
14	100	84	86	89	88	88	74	88	65	62	55	84
15	97	84	79	91	86	93	71	79	65	62	56	84
16	81	84	79	91	82	93	71	74	60	64	62	89
17	81	86	81	88	82	93	71	71	59	64	103	91
18	82	89	79	93	84	95	71	71	59	59	529	93
19	86	89	79	91	88	95	68	72	59	60	310	88
20	93	89	82	86	93	88	71	66	65	66	190	84
21	99	89	89	88	91	84	74	64	68	72	175	88
22	97	89	89	97	91	82	72	70	68	76	140	88
23	93	86	86	101	91	81	70	76	68	81	130	88
24	97	81	86	97	86	79	68	95	72	82	120	88
25	91	81	88	99	88	86	66	105	71	79	111	88
26	91	84	88	99	86	103	65	88	70	74	100	88
27	86	84	89	97	93	105	65	82	74	74	90	88
28	89	84	97	95	95	91	60	84	76	74	85	84
29	93	91	101	95	---	91	60	79	68	66	82	82
30	88	89	101	95	---	86	66	74	65	64	84	88
31	90	---	99	95	---	84	---	72	---	64	82	---
TOTAL	3781	2565	2739	2910	2523	2720	2144	2324	2069	2027	3295	2522
MEAN	122	85.5	88.4	93.9	90.1	87.7	71.5	75.0	69.0	65.4	106	84.1
MAX	561	91	101	101	99	105	79	105	81	82	529	93
MIN	81	79	79	86	82	76	60	62	59	58	55	74
AC-FT	7500	5090	5430	5770	5000	5400	4250	4610	4100	4020	6540	5000

CAL YR 1976 TOTAL 31453 MEAN 85.9 MAX 622 MIN 49 AC-FT 62390
WTR YR 1977 TOTAL 31619 MEAN 86.6 MAX 561 MIN 55 AC-FT 62720

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1964 to January 1965, October 1967 to current year.
CHEMICAL ANALYSES: January 1964 to January 1965, twice-monthly; October 1967 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice-monthly; February 1970 to July 1974, monthly; August 1974 to current year, twice-monthly.
SPECIFIC CONDUCTANCES: January 1964 to January 1965, twice-monthly; October 1967 to December 1967 and May 1968 to January 1969, weekly; February to October 1969, monthly; November 1969 to January 1970, twice-monthly; February 1970 to July 1974, monthly; August 1974 to May 1975, twice-monthly; June 1975 to current year, 4 times per hour (incomplete record due to recorder malfunctions) and twice-monthly.
WATER TEMPERATURES: January to December 1968, weekly; August 1969 to July 1974, monthly; August 1974 to current year, twice-monthly.
SEDIMENT DATA: January 1974 to December 1976, monthly; January 1977 to current year twice-monthly.

INSTRUMENTATION.--Specific-conductance recorder since June 1975.

REMARKS.--Discharge includes sewage effluent and waste water from industrial plants. Specific-conductance recorder reinstalled in November 1976 after vandalism in April. Recorder malfunctioned from Jan. 31 to March 15, March 27 to April 11, May 2 to 31, June 14 to 27, and Aug. 1 to 15, 25 to 30.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 9,120 micromhos Sept. 8, 1964; minimum, 2,600 micromhos July 3, 1975.
WATER TEMPERATURES: Maximum, 26.0°C July 23, 1969, June 3, 1970; minimum, 3.0°C Jan. 7, 1970.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 17,300 mg/L Feb. 10, 1976; minimum, 111 mg/L Jan. 28, 1975.

REVISIONS.--Re-evaluation of specific-conductance data for Sept. 9, 1975, indicates that the reported minimum value (which also would be a minimum for the entire period of record) is incorrect.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	HARDNESS (CA,MG) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)
OCT												
12...	1200	107	4050	8.0	18.0	200	E10	24	1500	420	410	120
26...	1000	98	3820	--	14.5	50	--	38	--	--	--	--
NOV												
15...	1030	60	4060	--	13.5	45	--	73	--	--	--	--
DEC												
02...	0900	86	3690	--	8.5	55	--	55	--	--	--	--
13...	1100	90	3740	--	8.0	55	--	18	--	--	--	--
27...	1100	84	3700	--	6.0	40	--	14	--	--	--	--
JAN												
10...	1100	86	3710	7.9	5.5	55	E14	49	1300	320	330	120
31...	1015	90	3520	--	8.0	40	--	10	--	--	--	--
FEB												
14...	1200	98	3660	--	11.0	65	--	23	--	--	--	--
28...	0945	107	3730	--	8.0	55	--	26	--	--	--	--
MAR												
14...	1100	59	3650	--	11.0	55	--	40	--	--	--	--
28...	1030	84	3710	--	11.0	50	--	50	--	--	--	--
APR												
11...	1030	73	3810	8.2	16.0	33	E10	33	1300	330	330	120
25...	1130	74	3720	--	17.5	75	--	33	--	--	--	--
MAY												
16...	1100	71	3520	--	16.0	50	--	47	--	--	--	--
31...	1000	71	3810	--	18.0	70	--	74	--	--	--	--
JUN												
14...	0830	60	3810	--	18.0	37	--	49	--	--	--	--
27...	0915	77	3690	--	22.0	55	--	33	--	--	--	--
JUL												
12...	0900	56	3850	8.0	19.0	20	E12	34	1400	370	370	110
28...	0800	65	3600	--	21.0	130	--	23	--	--	--	--
AUG												
15...	1000	56	3770	--	23.0	90	--	40	--	--	--	--
29...	1000	82	3150	--	21.5	310	--	39	--	--	--	--
SEP												
12...	0930	76	3630	--	21.5	380	--	42	--	--	--	--
30...	1000	74	3390	--	18.5	190	--	36	--	--	--	--

E: ESTIMATED ON BASIS OF SEMI-QUANTITATIVE FIELD DETERMINATION.

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT												
12...	120	400	350	3.9	--	38	246	0	1300	540	42	3140
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	3010
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	2810
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
10...	110	400	370	4.5	34	32	212	0	1100	490	38	2730
31...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	--	--	--	--	--	--	--	--	--	--	--	2710
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	110	400	380	4.6	38	35	250	0	1200	490	35	2930
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	2650
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	2990
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	110	410	390	4.6	42	37	250	0	1200	500	44	3010
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	2850
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	2930
30...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
12...	2920	907	625	5.9	.14	.26	.8	7.1	3.3	2.9	6.2
26...	--	--	259	6.7	.04	.34	1.1	8.1	4.0	--	7.7
NOV											
15...	--	488	125	9.1	.02	.01	.9	10	3.1	--	5.9
DEC											
02...	--	--	197	10	.14	.71	1.1	12	3.7	--	7.4
13...	--	683	162	9.1	.27	1.1	1.0	12	3.0	--	5.6
27...	--	--	96	11	.15	.44	.8	12	3.1	--	6.7
JAN											
10...	2570	634	301	9.3	.21	2.7	.7	13	4.0	4.0	7.0
31...	--	--	127	8.7	.19	1.8	.5	11	2.8	--	7.6
FEB											
14...	--	717	147	--	.05	.01	.7	--	3.7	--	5.8
28...	--	--	168	4.4	.22	.86	.8	6.3	4.3	--	7.7
MAR											
14...	--	--	218	8.4	.11	.37	.3	9.2	3.6	--	8.2
28...	--	--	278	5.8	.23	.65	.8	7.5	3.7	--	8.0
APR											
11...	2700	576	110	4.8	.12	.55	1.0	6.4	4.2	4.1	7.3
25...	--	--	258	3.7	.05	.01	1.0	4.7	3.7	--	6.9
MAY											
16...	--	508	163	3.8	.06	.06	1.3	5.3	4.2	--	9.3
31...	--	--	26	3.8	.19	.36	1.5	5.9	3.9	--	10
JUN											
14...	--	484	122	3.9	.21	.26	.8	5.2	3.0	--	6.3
27...	--	--	212	4.5	.67	.44	1.1	6.7	2.6	--	5.5
JUL											
12...	2770	455	74	3.2	.01	.03	.9	4.1	2.1	2.1	5.6
28...	--	--	53	3.3	.47	.69	1.0	5.5	3.6	--	9.1
AUG											
15...	--	431	280	3.0	.13	1.1	1.2	4.4	4.2	--	5.8
29...	--	--	--	--	--	2.0	.8	6.7	--	--	9.0
SEP											
12...	--	601	902	3.3	.52	.81	1.0	5.6	4.8	--	9.1
30...	--	--	416	3.6	.46	.82	.2	5.1	11	--	4.8

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 12...	1200	58	300	0	30	10	7100
NOV 15...	1030	44	100	<10	20	20	4300
DEC 13...	1100	40	0	20	10	<10	1700
JAN 10...	1100	36	200	<10	10	10	2800
FEB 14...	1200	25	0	<10	0	10	1400
MAR 14...	1100	30	0	<10	20	20	3900
APR 11...	1030	35	0	10	30	10	1600
MAY 16...	1100	34	0	10	20	10	3600
JUN 14...	0830	42	100	10	20	10	2100
JUL 12...	0900	26	100	10	20	10	1800
AUG 15...	1000	35	700	10	20	20	2100
SEP 12...	0930	39	800	10	40	20	13000

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 12...	40	690	.5	3	0	80
NOV 15...	100	420	.2	2	<10	30
DEC 13...	100	220	--	2	20	20
JAN 10...	<100	250	.5	2	<10	30
FEB 14...	100	360	.2	2	<10	30
MAR 14...	<100	530	.0	3	10	30
APR 11...	100	390	.1	2	<10	50
MAY 16...	100	400	.1	3	10	20
JUN 14...	100	1400	.0	0	10	20
JUL 12...	<100	170	.2	2	<10	20
AUG 15...	100	910	.1	0	10	40
SEP 12...	100	1300	.0	2	10	80

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL PCB (UG/L)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
OCT								
12...	1200	.0	.00	.00	.0	.00	.00	.00
JAN								
10...	1100	.0	.00	.00	.0	.00	.00	.00
APR								
11...	1030	2.7	.00	.00	.0	.00	.00	.00
AUG								
15...	1000	.0	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDO-SULFAN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)
OCT									
12...	.00	.00	--	.00	.00	.00	.00	.07	.00
JAN									
10...	.10	.00	.00	.00	.00	.00	.00	.06	.00
APR									
11...	.06	.00	.00	.00	.00	.00	.00	.04	.00
AUG									
15...	.08	.00	.00	.00	.00	.00	.00	.06	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT								
12...	.00	.00	.00	0	.00	.00	.00	.00
JAN								
10...	.00	.00	.00	0	.00	.00	.00	.00
APR								
11...	.00	.00	.00	0	.00	.11	.00	.01
AUG								
15...	.00	.00	.00	0	.00	.01	.01	.00

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1							---	---	---	3490	3200	3300
2							---	---	---	3400	3210	3270
3							---	---	---	3470	3190	3260
4							---	---	---	3580	3140	3230
5							---	---	---	3540	3480	3530
6							---	---	---	3570	3510	3540
7							---	---	---	3550	3470	3520
8							---	---	---	3540	3450	3490
9							---	---	---	3550	3460	3510
10							---	---	---	3660	3510	3570
11							---	---	---	3630	3550	3600
12							---	---	---	3630	3540	3570
13							---	---	---	3630	3540	3570
14							---	---	---	3570	3500	3540
15							---	---	---	3570	3540	3550
16							3810	3490	3710	3630	3500	3600
17							3700	3490	3580	3690	3600	3650
18							3770	3560	3710	3670	3590	3630
19							3940	3610	3790	3630	3580	3610
20							3790	3690	3740	3670	3610	3660
21							3740	3670	3720	3720	3590	3670
22							3680	3660	3680	3730	3640	3700
23							3720	3670	3710	3770	3650	3710
24							3750	3700	3730	3690	3560	3640
25							3740	3690	3710	3620	3440	3570
26							3710	3680	3700	3570	3270	3490
27							3790	3690	3730	3600	3310	3520
28							3730	3660	3690	3680	3510	3640
29							3660	3310	3610	3730	3590	3640
30							3550	3290	3370	3700	3540	3610
31							3500	3270	3330	---	---	---
MONTH							3940	3270	3656	3770	3140	3546

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	---	---	---	3720	3580	3650
2				---	---	---	---	---	---	---	---	---
3				---	---	---	---	---	---	---	---	---
4				---	---	---	---	---	---	---	---	---
5				---	---	---	---	---	---	---	---	---
6				---	---	---	---	---	---	---	---	---
7				---	---	---	---	---	---	---	---	---
8				---	---	---	---	---	---	---	---	---
9				---	---	---	---	---	---	---	---	---
10				---	---	---	---	---	---	---	---	---
11				---	---	---	---	---	---	---	---	---
12				---	---	---	3930	3800	3860	---	---	---
13				---	---	---	3860	3790	3830	---	---	---
14				---	---	---	3920	3820	3860	---	---	---
15				3720	3580	3680	3920	3850	3900	---	---	---
16				3690	3430	3590	3940	3850	3890	---	---	---
17				3710	3540	3650	3930	3830	3880	---	---	---
18				3730	3650	3690	3950	3820	3860	---	---	---
19				3850	3710	3780	3900	3810	3850	---	---	---
20				3880	3780	3820	3860	3670	3790	---	---	---
21				3840	3780	3810	3870	3570	3710	---	---	---
22				3860	3770	3810	3660	3550	3600	---	---	---
23				3880	3780	3830	3640	3580	3620	---	---	---
24				3900	3780	3840	3840	3620	3680	---	---	---
25				3830	3700	3780	3770	3590	3720	---	---	---
26				3840	3720	3810	3760	3690	3720	---	---	---
27				---	---	---	3760	3670	3710	---	---	---
28				---	---	---	3710	3620	3680	---	---	---
29				---	---	---	3760	3680	3710	---	---	---
30				---	---	---	3740	3640	3690	---	---	---
31				---	---	---	---	---	---	---	---	---
MONTH				3900	3430	3757	3950	3550	3766	---	---	---

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	3990	3710	3800	4440	4040	4330	3660	3490	3590	3940	3310	3770
2	3830	3730	3790	4310	4100	4220	---	---	---	3980	3830	3900
3	3830	3670	3740	4180	4040	4120	---	---	---	4030	3550	3840
4	3790	3660	3730	4110	3750	3980	---	---	---	4010	3650	3770
5	3750	3590	3660	3960	3730	3850	---	---	---	3810	3620	3710
6	3600	3240	3510	4050	3920	3990	---	---	---	3730	3590	3660
7	3660	3490	3580	4010	3820	3940	---	---	---	3840	3360	3640
8	3770	2880	3650	3960	3740	3830	---	---	---	3790	3670	3710
9	3790	3620	3730	3860	3760	3820	---	---	---	3820	3670	3720
10	3800	3610	3730	4010	3800	3910	---	---	---	3770	3690	3740
11	3840	3690	3770	4020	3870	3950	---	---	---	4020	3710	3830
12	3840	3660	3750	4060	3870	3950	---	---	---	3810	3590	3720
13	3850	3700	3750	4020	3870	3950	---	---	---	3740	3590	3670
14	---	---	---	3980	3870	3920	---	---	---	3670	3490	3590
15	---	---	---	3990	3860	3930	---	---	---	3600	3450	3550
16	---	---	---	4380	3890	4110	3710	3510	3610	3640	3430	3520
17	---	---	---	4100	3900	4010	4940	2960	3940	3720	3450	3490
18	---	---	---	4330	3950	4070	5210	3700	4300	3520	3160	34[illegible]0
19	---	---	---	4310	3960	4110	4040	3460	3750	3620	3150	3430
20	---	---	---	4370	3920	4180	4120	3390	3910	3550	3380	3440
21	---	---	---	4170	3840	3940	4070	3420	3750	3450	3340	3400
22	---	---	---	3950	3700	3810	4390	3450	4000	3450	3360	3400
23	---	---	---	4180	3680	3900	4410	4050	4220	3450	3350	3400
24	---	---	---	4090	3730	3870	4080	3940	4000	3450	3360	3400
25	---	---	---	3790	3590	3710	---	---	---	3450	3130	3370
26	---	---	---	3850	3550	3660	---	---	---	3450	3210	3310
27	---	---	---	3570	3440	3520	---	---	---	3330	3240	3270
28	4240	3780	3970	3570	3430	3490	---	---	---	3400	3290	3330
29	4590	4130	4430	3620	3480	3530	---	---	---	3400	3300	3360
30	4260	4020	4130	3910	3530	3660	---	---	---	3500	3370	3400
31	---	---	---	3670	3530	3600	3850	3680	3760	---	---	---
MONTH	4590	2880	3795	4440	3430	3898	5210	2960	3893	4030	3130	3550
YEAR	5210	2880	3713									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09419800 LAS VEGAS WASH NEAR BOULDER CITY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAY										
10...	1030	98	1610	426	64	84	96	99	100	--
JUL										
27...	1100	152	6740	2770	81	88	92	95	96	97

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE 1/	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT										
12...	1200	107	1010	292	--	--	--	--	--	--
JAN										
10...	1100	86	503	117	52	69	84	93	99	100
31...	1015	90	313	76	--	--	--	--	--	--
FEB										
14...	1200	98	363	96	84	98	100	--	--	--
28...	0945	107	268	77	--	--	--	--	--	--
APR										
11...	1030	73	324	64	--	--	--	--	--	--
25...	1130	74	301	60	--	--	--	--	--	--
MAY										
16...	1100	71	501	96	--	--	--	--	--	--
JUN										
14...	0830	60	322	52	--	--	--	--	--	--
27...	0915	77	740	154	--	--	--	--	--	--
JUL										
12...	0900	56	160	24	--	--	--	--	--	--
28...	0800	65	1580	277	--	--	--	--	--	--

1. SEDIMENT SAMPLES COLLECTED AFTER JULY 28, 1977, WERE NOT PROCESSED IN TIME FOR RESULTS TO BE INCLUDED IN THIS REPORT. DATA ARE AVAILABLE FROM U.S. GEOLOGICAL SURVEY OFFICE, CARSON CITY, NV.

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'58", long 114°44'13", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15030105, in center of Hoover Dam on Colorado River.

DRAINAGE AREA.--171,700 mi^2 (444,700 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Contents: February 1935 to current year. Evaporation: March 1952 to current year. Diversions (monthly totals only): to Boulder City area, since October 1935; to Henderson and Las Vegas areas, since April 1942; combined diversions since October 1968. Prior to 1946 published as "at Boulder Dam."

REVISED RECORDS.--WSP 899: 1935-39.

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.40 ft (0.122 m) above mean sea level, used locally as at mean sea level, powerhouse datum.

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began Feb. 1, 1935; dam completed Mar. 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use Apr. 1, 1967), 29,755,000 acre-ft (36,700 hm^3), consisting of the following: Dead storage, 2,378,000 acre-ft (2,930 hm^3) below gage height 895.0 ft (272.80 m)—gate sills in outlet towers; usable contents, 26,159,000 acre-ft (32,300 hm^3) between gage heights 895.0 ft (272.80 m) and 1,221.4 ft (372.28 m)—top of automatic spillway gates in raised position; and uncontrolled storage, 1,218,000 acre-ft (1,500 hm^3) between gage heights 1,221.4 ft (372.28 m) and 1,229.0 ft (374.60 m)—maximum water surface. Reservoir is used to store water for flood control, irrigation, municipal water supply, and power development. Figures given herein represent usable contents.

DIVERSIONS FROM LAKE MEAD.--Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi (10 km) upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of elevations and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft (34,300 hm^3) July 29, 30, 1941 (gage height, 1,220.45 ft or 371.993 m); minimum (since 1940), 10,695,000 acre-ft (13,200 hm^3) Apr. 26, 1956 (gage height, 1,083.21 ft or 330.162 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 21,957,000 acre-ft (27,100 hm^3) Feb. 6, gage height, 1,193.29 ft (363.715 m); minimum, 19,528,000 acre-ft (24,100 hm^3) July 30, gage height, 1,175.31 ft (358.234 m).

CONTENTS, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20053	20447	20958	21240	21924	21751	21354	20544	19966	19628	19531	19790
2	20094	20459	20976	21261	21931	21741	21348	20514	19934	19637	19533	19800
3	20121	20481	20995	21262	21935	21729	21349	20471	19907	19641	19544	19815
4	20140	20504	21018	21262	21942	21736	21327	20441	19891	19642	19548	19844
5	20153	20525	21042	21265	21950	21752	21306	20410	19888	19638	19551	19860
6	20164	20552	21058	21279	21957	21765	21284	20390	19875	19623	19555	19857
7	20165	20579	21070	21291	21942	21750	21263	20379	19848	19604	19568	19852
8	20177	20594	21082	21323	21925	21733	21237	20367	19835	19589	19567	19865
9	20202	20603	21090	21349	21912	21708	21217	20360	19811	19599	19559	19895
10	20226	20612	21103	21378	21911	21695	21211	20331	19797	19614	19559	19925
11	20230	20623	21112	21397	21915	21678	21189	20310	19798	19614	19570	19959
12	20229	20630	21130	21424	21922	21674	21170	20280	19796	19602	19573	19975
13	20222	20649	21142	21457	21938	21688	21141	20263	19779	19589	19581	19982
14	20229	20668	21145	21482	21922	21673	21111	20261	19754	19571	19595	19997
15	20231	20692	21145	21476	21900	21648	21079	20259	19730	19557	19601	20017
16	20242	20703	21148	21531	21876	21614	21060	20227	19707	19557	19602	20036
17	20253	20709	21144	21557	21876	21603	21044	20206	19691	19568	19615	20057
18	20250	20723	21151	21577	21870	21586	21017	20188	19688	19562	19616	20082
19	20241	20742	21160	21607	21870	21586	20971	20168	19689	19555	19617	20090
20	20242	20761	21169	21638	21876	21585	20925	20153	19680	19549	19636	20087
21	20243	20783	21167	21675	21853	21565	20884	20148	19664	19544	19668	20094
22	20246	20801	21162	21708	21832	21535	20852	20140	19647	19532	19684	20104
23	20266	20816	21167	21730	21808	21500	20820	20121	19629	19535	19702	20116
24	20290	20834	21181	21748	21797	21479	20797	20103	19612	19554	19712	20132
25	20310	20859	21189	21765	21782	21460	20757	20088	19625	19553	19717	20156
26	20323	20884	21191	21787	21786	21454	20709	20059	19633	19544	19725	20166
27	20336	20888	21182	21815	21790	21454	20669	20038	19641	19541	19757	20173
28	20351	20897	21164	21838	21773	21420	20625	20028	19637	19539	19785	20184
29	20378	20920	21159	21866	---	21389	20583	20020	19636	19531	19790	20190
30	20402	20939	21178	21893	---	21366	20555	20011	19638	19528	19793	20205
31	20429	---	21203	21918	---	21360	---	19987	---	19532	19796	---
(*)	1182.16	1185.94	1187.87	1193.01	1191.98	1189.01	1183.10	1178.83	1176.16	1175.34	1177.37	1180.48
(†)	+407000	+510000	+264000	+715000	-145000	-413000	-805000	-568000	-349000	-106000	+264000	+409000
(‡)	6820	5810	5020	4750	5150	6560	7620	7700	9960	11510	10680	8630

(**) Not available for this report, see Water Resources Data for Arizona, Water Year 1977.
(††) Not available for this report, see Water Resources Data for Arizona, Water Year 1977.

CAL YR 1976	† 1,111,000	‡ 89,840
WTR YR 1977	† 183,000	‡ 90,210

* Gage height, in feet, at end of month.
† Change in contents, in acre-feet.
‡ Diversions, in acre-feet.
** Gross evaporation, in inches, from Lake Mead.
‡‡ Gross evaporation, in acre-feet, from Lake Mead.

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1940 to September 1962, October 1963 to current year.
CHEMICAL ANALYSES, SPECIFIC CONDUCTANCES, AND WATER TEMPERATURES: October 1940 to September 1962 and October 1963 to current year, monthly.

COOPERATION.--Samples and field data collected by U.S. Bureau of Reclamation. Non-nutrient samples analyzed by Metropolitan Water District of Southern California.

EXTREMES MEASURED FOR PERIOD OF RECORD.--At 5-ft depth to September 1962; at water surface from October 1963 to current year.
SPECIFIC CONDUCTANCES: Maximum, 1,250 micromhos Oct. 4, Nov. 1, 1965; minimum, 688 micromhos Nov. 1, 1957.
WATER TEMPERATURES: Maximum, 31.5°C Aug. 30, 1967; minimum, 11.0°C Jan. 28, 1949.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
NOV									
04...	.0	1080	8.3	21.5	7.0	320	78	31	110
04...	10	1080	8.3	20.5	7.0	--	--	--	--
04...	25	1080	8.4	20.5	6.9	--	--	--	--
04...	75	1080	8.4	20.5	5.7	330	80	32	100
04...	125	1080	8.0	19.0	3.6	340	84	31	100
04...	175	1060	8.1	14.5	5.6	330	84	30	100
04...	225	1050	8.1	13.5	5.9	--	--	--	--
04...	275	1050	8.1	13.0	6.4	330	83	30	98
04...	325	1050	8.1	13.0	6.4	--	--	--	--
04...	375	1050	8.1	12.0	5.8	--	--	--	--
04...	425	1060	7.9	12.0	4.2	330	84	29	99
04...	463	1050	7.8	12.0	2.7	--	--	--	--
DEC									
21...	.0	1080	8.0	13.5	7.6	330	84	30	100
21...	10	1080	8.2	15.0	7.3	--	--	--	--
21...	25	1080	8.3	15.0	7.3	--	--	--	--
21...	75	1080	8.3	15.0	7.0	--	--	--	--
21...	125	1080	8.3	15.0	7.3	330	84	30	100
21...	175	1070	8.0	14.5	4.8	330	84	30	100
21...	225	1050	8.1	14.0	6.0	--	--	--	--
21...	275	1040	8.1	13.5	6.0	330	84	28	98
21...	375	1040	8.1	13.0	6.0	--	--	--	--
21...	425	1050	8.0	13.0	5.5	330	84	28	99
21...	470	1090	8.3	13.0	7.2	--	--	--	--
JAN									
26...	.0	1070	8.0	13.0	7.8	330	85	29	100
26...	10	1070	8.1	13.0	7.7	--	--	--	--
26...	25	1070	8.0	13.0	7.9	--	--	--	--
26...	75	1070	8.1	13.0	7.8	330	85	29	100
26...	125	1070	8.0	13.0	7.4	--	--	--	--
26...	175	1060	8.0	13.0	6.8	330	85	28	100
26...	225	1060	7.9	13.0	6.8	--	--	--	--
26...	275	1040	7.9	13.0	6.0	330	85	28	96
26...	282	1040	7.8	13.0	5.8	--	--	--	--
26...	325	1040	7.6	13.0	5.0	--	--	--	--
26...	375	1040	7.7	13.0	4.0	--	--	--	--
26...	425	1040	7.6	13.0	3.6	330	85	28	96
26...	474	1070	7.8	13.0	4.6	--	--	--	--
FEB									
22...	.0	1080	8.1	14.5	9.7	330	83	30	99
22...	10	1080	8.3	13.5	9.7	--	--	--	--
22...	25	1080	8.4	13.5	9.5	--	--	--	--
22...	75	1080	8.0	13.5	--	--	--	--	--
22...	125	1080	8.4	13.5	9.1	--	--	--	--
22...	175	1080	8.3	13.5	8.4	330	83	30	99
22...	225	1070	8.2	13.0	7.6	--	--	--	--
22...	275	995	8.2	12.0	8.5	--	--	--	--
22...	282	995	8.3	12.0	8.4	310	77	28	92
22...	325	995	8.1	12.0	8.6	--	--	--	--
22...	375	995	8.2	12.0	8.6	--	--	--	--
22...	425	995	8.2	12.0	1.4	310	78	28	91
22...	474	1000	8.2	12.0	8.4	--	--	--	--
MAR									
30...	.0	1050	8.1	13.5	9.6	330	83	30	100
30...	10	1050	8.2	13.5	9.6	--	--	--	--
30...	25	1050	8.3	13.0	9.6	--	--	--	--
30...	75	1050	8.3	13.0	9.6	--	--	--	--
30...	125	1050	8.2	12.5	9.3	--	--	--	--
30...	175	1050	8.2	12.0	9.2	330	84	30	100
30...	225	1050	8.2	12.0	9.0	--	--	--	--
30...	275	1000	8.2	11.5	8.2	--	--	--	--
30...	280	1000	8.2	11.5	8.2	320	81	28	96
30...	325	1000	8.2	11.5	8.4	--	--	--	--
30...	375	1000	8.1	11.5	8.4	--	--	--	--
30...	425	990	8.2	11.5	8.4	320	80	28	94
30...	471	990	8.2	11.5	8.0	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
NOV								
04...	2.7	4.7	138	0	300	91	7.6	690
04...	--	--	139	0	--	90	--	--
04...	--	--	139	0	--	90	--	--
04...	2.4	4.6	142	0	300	90	8.0	685
04...	2.4	4.5	159	0	300	88	7.9	695
04...	2.4	4.4	160	0	290	86	8.2	682
04...	--	--	161	0	--	86	--	--
04...	2.3	4.3	162	0	280	86	8.2	670
04...	--	--	162	0	--	84	--	--
04...	--	--	162	0	--	84	--	--
04...	2.4	4.3	163	0	280	84	9.3	671
04...	--	--	166	0	--	84	--	--
DEC								
21...	2.4	5.4	150	0	300	90	8.8	693
21...	--	--	150	0	--	90	--	--
21...	--	--	150	0	--	90	--	--
21...	--	--	150	0	--	90	--	--
21...	2.4	4.7	150	0	300	90	9.7	693
21...	2.4	4.9	159	0	290	86	9.3	684
21...	--	--	161	0	--	82	--	--
21...	2.4	4.4	162	0	280	82	10	667
21...	--	--	162	0	--	82	--	--
21...	2.4	4.4	163	0	280	82	11	670
21...	--	--	165	0	--	90	--	--
JAN								
26...	2.4	4.6	156	0	290	87	9.4	683
26...	--	--	155	0	--	86	--	--
26...	--	--	157	0	--	85	--	--
26...	2.4	4.5	156	0	290	86	9.7	682
26...	--	--	157	0	--	84	--	--
26...	2.4	4.4	159	0	290	85	10	682
26...	--	--	160	0	--	83	--	--
26...	2.3	4.3	163	0	280	81	11	667
26...	--	--	163	0	--	80	--	--
26...	--	--	163	0	--	81	--	--
26...	--	--	165	0	--	81	--	--
26...	2.3	4.3	165	0	270	80	11	657
26...	--	--	163	0	--	84	--	--
FEB								
22...	2.4	4.6	157	0	290	87	9.7	681
22...	--	--	157	0	--	87	--	--
22...	--	--	157	0	--	87	--	--
22...	--	--	157	0	--	87	--	--
22...	--	--	157	0	--	87	--	--
22...	2.4	4.5	156	0	290	87	9.4	681
22...	--	--	157	0	--	86	--	--
22...	--	--	162	0	--	79	--	--
22...	2.3	4.0	162	0	260	79	9.3	630
22...	--	--	163	0	--	78	--	--
22...	--	--	163	0	--	79	--	--
22...	2.2	4.0	163	0	260	78	10	630
22...	--	--	163	0	--	78	--	--
MAR								
30...	2.4	5.1	157	0	290	87	9.4	682
30...	--	--	160	0	--	87	--	--
30...	--	--	159	0	--	87	--	--
30...	--	--	160	0	--	87	--	--
30...	--	--	159	0	--	87	--	--
30...	2.4	4.7	159	0	290	86	9.3	683
30...	--	--	159	0	--	86	--	--
30...	--	--	160	0	--	82	--	--
30...	2.3	4.3	162	0	280	82	9.4	661
30...	--	--	162	0	--	81	--	--
30...	--	--	161	0	--	80	--	--
30...	2.3	4.2	161	0	260	80	9.4	636
30...	--	--	163	0	--	80	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY									
05...	.0	1060	8.2	18.0	10.0	330	83	30	100
05...	10	1060	8.4	16.0	10.0	--	--	--	--
05...	25	1060	8.4	14.5	9.6	--	--	--	--
05...	75	1060	8.3	14.0	9.1	--	--	--	--
05...	125	1060	8.3	13.0	8.8	330	83	30	99
05...	175	1060	8.5	12.0	8.7	--	--	--	--
05...	225	1030	8.2	12.0	8.0	330	81	30	96
05...	275	1020	8.2	11.5	7.8	320	81	28	95
05...	325	1020	8.3	11.5	7.6	--	--	--	--
05...	375	1010	8.3	11.5	7.8	--	--	--	--
05...	425	1010	8.3	11.5	7.6	320	81	28	95
05...	465	1020	8.2	11.5	7.8	--	--	--	--
JUN									
01...	.0	1050	7.1	24.5	9.5	330	81	32	100
01...	10	1050	7.2	23.0	9.5	--	--	--	--
01...	25	1050	7.1	22.0	9.8	--	--	--	--
01...	75	1050	6.8	17.0	8.1	--	--	--	--
01...	125	1050	6.7	14.0	8.0	330	83	30	100
01...	175	1040	6.6	13.5	8.1	--	--	--	--
01...	225	1040	6.6	13.0	7.8	--	--	--	--
01...	269	1020	6.6	13.0	7.6	320	80	30	98
01...	275	1020	6.5	12.0	7.4	--	--	--	--
01...	375	1020	6.6	12.0	7.2	--	--	--	--
01...	425	1010	6.5	12.0	7.0	320	80	29	96
01...	462	1010	6.5	12.0	6.0	--	--	--	--
JUL									
28...	.0	1040	8.4	30.0	8.3	320	77	31	110
28...	10	1050	8.6	28.5	8.6	--	--	--	--
28...	25	1050	8.6	28.0	8.6	--	--	--	--
28...	75	1050	8.2	17.5	5.7	--	--	--	--
28...	125	1050	8.0	14.0	6.6	--	--	--	--
28...	175	1050	8.0	13.5	7.3	330	84	30	100
28...	225	1040	8.0	13.0	7.4	--	--	--	--
28...	267	1030	7.9	12.0	7.1	330	82	30	98
28...	275	1030	8.0	12.0	7.1	--	--	--	--
28...	325	1020	7.9	12.0	7.1	--	--	--	--
28...	375	1020	7.8	12.0	6.5	--	--	--	--
28...	425	1020	7.8	12.0	6.0	330	81	30	96
28...	460	1020	7.8	12.0	5.0	--	--	--	--
AUG									
30...	.0	1060	8.5	28.5	7.9	320	76	31	110
30...	10	1060	8.6	28.5	7.6	--	--	--	--
30...	25	1060	8.1	27.5	7.2	--	--	--	--
30...	75	1050	7.9	18.5	4.0	330	82	30	100
30...	125	1050	7.9	15.0	5.7	--	--	--	--
30...	175	1050	8.0	13.5	6.8	--	--	--	--
30...	225	1030	7.9	12.5	7.1	--	--	--	--
30...	267	1020	8.0	12.0	6.9	320	81	29	97
30...	275	1020	8.1	12.0	6.8	--	--	--	--
30...	325	1020	8.0	12.0	6.9	--	--	--	--
30...	375	1020	7.9	12.0	6.9	--	--	--	--
30...	425	1020	7.9	12.0	5.6	320	81	28	97
30...	459	1020	7.8	12.0	4.0	--	--	--	--
SEP									
29...	.0	1080	8.0	23.5	6.8	320	78	31	100
29...	10	1080	8.0	23.5	6.8	--	--	--	--
29...	25	1080	8.5	23.0	6.7	--	--	--	--
29...	75	1070	7.8	18.5	2.8	330	82	30	100
29...	125	1050	7.8	14.5	5.4	--	--	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
MAY								
05...	2.4	4.8	156	0	290	86	7.1	678
05...	--	--	156	0	--	87	--	--
05...	--	--	157	0	--	86	--	--
05...	--	--	159	0	--	86	--	--
05...	2.4	4.6	157	0	290	86	8.9	680
05...	--	--	159	0	--	85	--	--
05...	2.3	4.7	160	0	280	83	9.7	664
05...	2.3	4.5	161	0	270	82	9.2	650
05...	--	--	162	0	--	82	--	--
05...	--	--	162	0	--	81	--	--
05...	2.3	4.3	161	0	270	81	9.6	649
05...	--	--	162	0	--	80	--	--
JUN								
01...	2.4	4.8	153	1	300	85	6.8	686
01...	--	--	155	0	--	86	--	--
01...	--	--	155	0	--	86	--	--
01...	--	--	157	0	--	85	--	--
01...	2.4	4.6	160	0	290	87	8.6	683
01...	--	--	160	0	--	84	--	--
01...	--	--	161	0	--	84	--	--
01...	2.4	4.5	161	0	280	83	8.7	664
01...	--	--	162	0	--	82	--	--
01...	--	--	161	0	--	82	--	--
01...	2.3	4.4	162	0	270	82	8.8	651
01...	--	--	163	0	--	83	--	--
JUL								
28...	2.7	4.8	124	4	300	93	7.5	688
28...	--	--	124	4	--	92	--	--
28...	--	--	128	2	--	93	--	--
28...	--	--	153	0	--	89	--	--
28...	--	--	156	0	--	89	--	--
28...	2.4	4.6	156	0	290	89	8.9	684
28...	--	--	157	0	--	88	--	--
28...	2.4	4.5	159	0	270	88	8.9	660
28...	--	--	159	0	--	88	--	--
28...	--	--	159	0	--	86	--	--
28...	--	--	160	0	--	85	--	--
28...	2.3	4.3	161	0	270	84	8.9	654
28...	--	--	161	0	--	84	--	--
AUG								
30...	2.7	4.7	126	0	300	97	8.2	689
30...	--	--	--	--	--	96	--	--
30...	--	--	--	--	--	96	--	--
30...	2.4	4.3	154	0	280	91	7.5	671
30...	--	--	--	--	--	90	--	--
30...	--	--	--	--	--	88	--	--
30...	--	--	--	--	--	87	--	--
30...	2.4	4.1	161	0	270	86	9.1	656
30...	--	--	--	--	--	86	--	--
30...	--	--	--	--	--	86	--	--
30...	--	--	--	--	--	87	--	--
30...	2.4	4.1	162	0	270	87	9.5	657
30...	--	--	--	--	--	87	--	--
SEP								
29...	2.4	4.9	135	0	300	94	7.8	682
29...	--	--	134	0	--	94	--	--
29...	--	--	134	0	--	94	--	--
29...	2.4	4.4	154	0	280	86	7.8	666
29...	--	--	157	0	--	86	--	--

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
SEP									
29...	175	1040	7.7	13.0	6.0	330	83	30	98
29...	225	1030	7.7	12.5	7.0	--	--	--	--
29...	267	1020	7.9	12.0	6.6	320	82	29	96
29...	275	1020	7.7	12.0	6.3	--	--	--	--
29...	325	1020	8.0	12.0	6.4	--	--	--	--
29...	375	1020	8.1	12.0	5.9	--	--	--	--
29...	425	1020	8.1	12.0	5.4	320	82	29	95
29...	461	1020	8.1	12.0	4.1	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
SEP								
29...	2.3	4.3	160	0	280	85	8.5	668
29...	--	--	161	0	--	83	--	--
29...	2.3	4.2	161	0	270	83	8.8	653
29...	--	--	161	0	--	83	--	--
29...	--	--	161	0	--	83	--	--
29...	--	--	161	0	--	82	--	--
29...	2.3	4.2	161	0	280	82	9.9	662
29...	--	--	163	0	--	82	--	--

DATE	TRANSPARENCY, SECCHI DISK (FEET)
NOV. 4	27
DEC. 21	29
JAN. 26	28
FEB. 22	17
MAR. 30	44
MAY 5	41
JUNE 1	23
JUNE 29	19
JULY 28	14
AUG. 30	10
SEP. 29	14

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV
(National stream-quality accounting network station)

LOCATION.--Lat 36°00'55", long 114°44'16", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW¼NE¼ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, Hydrologic Unit 15030101, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--171,700 mi^2 (444,700 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year (prior to April 1934, monthly discharge only, published in WSP 1313). Published as "near Willow Beach" 1933-39 and as "below Boulder Dam" 1939-45.

GAGE.--Totalizing flowmeters on each turbine in Hoover Dam powerhouse. Prior to Nov. 1, 1939, water-stage recorder at site 9 mi (14 km) downstream at datum 594.8 ft (181.30 m) above mean sea level. Nov. 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 600.35 ft (182.987 m) above mean sea level.

REMARKS.--Flow regulated by Lake Mead since Feb. 1, 1935. Many diversions above station for irrigation, industrial, and municipal use.

COOPERATION.--Records furnished by Bureau of Reclamation.

AVERAGE DISCHARGE.--43 years (1934-77), 13,270 ft^3/s (375.8 m^3/s), 9,614,000 acre-ft/yr (11,900 hm^3/yr) unadjusted for storage in Lake Mead.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 36,000 ft^3/s (1,020 m^3/s) Jan. 28, 1942; no flow at Hoover Dam part of Feb. 10, 1935; minimum daily discharge, 152 ft^3/s (4.30 m^3/s) Feb. 10, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25,000 ft^3/s (708 m^3/s) Apr. 25; minimum daily discharge, 1,390 ft^3/s (39.4 m^3/s) Jan. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4910	4080	8040	3760	7890	17300	15400	7470	12100	17700	15200	10800
2	1940	6660	6800	4550	9820	15800	6560	19400	16800	6130	17400	10800
3	2150	2530	4390	7360	10400	15500	4060	19400	15000	4120	19000	8610
4	2100	4250	3830	7630	10100	16100	14800	18200	10500	4010	18900	4630
5	2540	3620	2560	11900	4660	8130	13400	20000	5160	11700	19600	6210
6	3070	2580	5860	7350	4460	6240	12700	16100	15700	18500	12500	16000
7	5290	2360	7800	5100	16300	15900	14100	11000	15900	15800	6590	12900
8	5940	6050	9120	2250	14400	17900	16600	8780	14400	17700	17800	13800
9	2720	7420	9380	2380	12700	17100	9480	17400	13500	6760	17800	9680
10	2710	8650	7120	3300	11700	18500	4790	13300	12200	6130	17200	5500
11	7900	8480	4600	3130	10300	16200	16400	14100	6430	15100	16900	5090
12	7610	10600	3870	2980	5600	6860	16200	12700	6010	17600	15500	7680
13	11500	4270	7470	4070	3820	5260	17600	9950	11700	18500	10500	7930
14	10700	3960	7570	4440	16500	15900	17100	4550	13600	22500	11200	6060
15	11000	8470	9740	4630	17500	16300	16800	2970	13000	21100	17400	4660
16	5620	7400	10500	4920	19600	17800	10300	16200	14200	11300	16900	4080
17	4420	10900	11500	4490	10300	18100	8840	16800	14600	8920	14300	3150
18	13400	6100	8270	2960	10100	16600	20100	13200	8480	16500	22800	2960
19	12000	3400	5250	2750	4850	9860	23100	13100	5880	17900	23700	7570
20	12300	2060	8460	1490	3780	7320	24400	13900	12900	17500	15400	8340
21	12400	2040	10400	1900	10600	13600	24900	9560	14600	18900	7420	7130
22	9850	2740	13100	1390	15200	17200	23400	6280	13800	18600	12300	6690
23	2060	4890	9610	1610	17200	16300	19800	13400	18000	12400	11200	7190
24	2190	5060	6730	1890	16500	16100	14800	11500	16900	7210	13100	3400
25	2680	2520	6300	1840	13900	15200	25000	11700	6270	17700	13200	2840
26	2600	2800	7190	4050	6450	7010	23700	13500	6060	18400	12300	9320
27	3990	3540	10800	4200	5870	6620	21400	12900	9750	16800	5640	8860
28	3820	2760	13500	4570	16200	15500	23800	8350	13100	16700	5360	11400
29	2860	6400	13200	3840	---	15500	22700	6390	13500	21000	13000	12300
30	2200	6870	8730	3120	---	13700	15900	7550	13000	14900	11100	11000
31	2400	---	3820	6400	---	15200	---	13800	---	11900	10400	---
TOTAL	177070	153460	245510	126250	306700	430600	498130	383450	363040	449980	441610	236580
MEAN	5712	5115	7920	4073	10950	13890	16600	12370	12100	14520	14250	7886
MAX	13400	10900	13500	11900	19600	18500	25000	20000	18000	22500	23700	16000
MIN	1940	2040	2560	1390	3780	5260	4060	2970	5160	4010	5360	2840
AC-FT	351200	304400	487000	250400	608300	854100	988000	760600	720100	892500	875900	469300

CAL YR 1976 TOTAL 3996260 MEAN 10920 MAX 22900 MIN 1940 AC-FT 7927000
WTR YR 1977 TOTAL 3812380 MEAN 10440 MAX 25000 MIN 1390 AC-FT 7562000

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD. October 1939 to current year.
CHEMICAL ANALYSES: October 1939 to September 1944, once-daily (composited); October 1944 to July 1946 and November 1948 to July 1950, occasional (composited); October 1950 to September 1957, once-daily (composited); October 1957 to September 1962, twice-monthly (composited); October 1963 to September 1967, three times per month (composited); October 1967 to March 1970, once-daily (composited); April 1970 to current year, monthly.
SPECIFIC CONDUCTANCES: October 1939 to July 1957, once-daily; August 1957 to September 1962 and October 1963 to March 1970, variable frequency of measurement; April 1970 to current year, monthly.
BIOLOGICAL AND MICROBIOLOGICAL DATA: November 1974 to current year, monthly.
WATER TEMPERATURES: October 1941 to July 1957, once-daily; August 1957 to March 1970, variable frequency of measurement: April to current year, monthly.
SEDIMENT DATA: August 1975 to current year, monthly.

REMARKS.--Samples collected 0.3 mi (0.5 km) downstream from gaging station in Hoover Dam powerhouse.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE OCTOBER 1970.--
SPECIFIC CONDUCTANCES: Maximum, 1,230 micromhos Jan. 18, 1972; minimum, 1,000 micromhos June 19, 1972.
WATER TEMPERATURES: Maximum, 18.5°C April 21, 1970; minimum, 9.0°C Feb. 12, 1975.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 3 mg/L Oct. 7, Nov. 11, 1975; minimum, 0 mg/L on several days in 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM .7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
05...	0800	2920	1070	7.9	13.0	1	--	--	--	330	87
06...	0800	400	--	--	13.0	--	150	42	--	--	--
NOV											
09...	0830	4110	1060	7.9	12.5	1	--	--	--	330	86
10...	0730	4280	--	--	12.5	--	B2	B1	--	--	--
DEC											
07...	0815	7900	1060	7.9	12.5	1	--	--	--	320	83
JAN											
11...	0800	5320	1070	7.7	12.5	3	--	--	--	290	60
13...	0800	308	--	--	13.0	--	B4	--	B3	--	--
FEB											
08...	0815	15420	1100	7.6	12.5	1	--	--	--	320	81
09...	0800	12110	--	--	12.0	--	B2	--	B4	--	--
MAR											
08...	0800	27570	1040	7.7	11.5	1	--	--	--	320	81
09...	0800	25420	--	--	11.5	--	B1	--	45	--	--
APR											
12...	0800	27850	1050	7.9	11.5	1	--	--	--	320	80
13...	0800	30400	--	--	11.5	--	B1	--	B1	--	--
MAY											
03...	0800	21800	1050	8.1	11.5	0	--	--	--	330	85
04...	0800	19100	--	--	11.5	--	B1	--	B1	--	--
JUN											
07...	0740	18200	1060	7.7	12.0	1	--	--	--	320	81
08...	0800	19600	--	--	12.5	--	B1	--	B1	--	--
JUL											
12...	0800	16190	1060	7.4	12.0	10	--	--	--	330	83
13...	0800	13460	--	--	12.0	--	B1	--	B1	--	--
AUG											
09...	0800	13690	1070	7.3	12.5	0	--	--	--	350	88
10...	0800	17640	--	--	13.0	--	B1	--	B2	--	--
SEP											
13...	0745	9350	1060	7.7	12.5	1	--	--	--	310	80
14...	0800	4370	--	--	13.5	--	B1	--	B2	--	--

B: NON-IDEAL COLONY COUNT

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
OCT										
05...	27	100	2.4	4.9	165	0	290	85	.6	8.9
06...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	27	96	2.3	4.6	189	0	270	80	.4	8.3
10...	--	--	--	--	--	--	--	--	--	--
DEC										
07...	28	96	2.4	4.6	167	0	290	80	.4	8.3
JAN										
11...	23	120	3.0	4.7	152	0	300	97	1.0	12
13...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	29	100	2.4	4.6	159	0	290	86	.5	9.1
09...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	29	97	2.4	4.5	159	0	280	90	.3	7.6
09...	--	--	--	--	--	--	--	--	--	--
APR										
12...	29	97	2.4	4.5	160	0	270	81	.4	8.5
13...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	29	98	2.3	4.7	160	0	270	79	.4	8.7
04...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	29	100	2.4	5.0	160	0	280	80	.3	8.4
08...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	30	100	2.4	4.4	150	0	280	87	.3	8.4
13...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	31	100	2.3	4.6	160	0	290	81	.3	8.9
10...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	27	96	2.4	4.8	160	0	280	83	.4	9.8
14...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT										
05...	691	687	5450	.54	.01	.47	? 2.4	2.9	.01	--
06...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	689	668	7650	--	--	.50	.11	.61	.01	2.2
10...	--	--	--	--	--	--	--	--	--	--
DEC										
07...	692	677	14800	--	--	.51	.28	.79	.01	--
JAN										
11...	729	714	10500	--	--	.38	.48	.86	.01	--
13...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	714	681	29700	--	--	.39	.25	.64	.01	2.6
09...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	685	670	51000	--	--	.35	.44	.79	.00	--
09...	--	--	--	--	--	--	--	--	--	--
APR										
12...	684	651	51400	--	--	.38	.50	.88	.00	--
13...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	692	655	40700	--	--	.41	.57	.98	.01	2.2
04...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	697	664	34300	--	--	.31	?1.2	1.5	.03	--
08...	--	--	--	--	--	--	--	--	--	--
JUL										
12...	705	669	30800	--	--	.34	.07	.41	.03	--
13...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	707	683	26100	--	--	.65	.59	1.2	.00	3.8
10...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	692	660	17500	--	--	.37	.00	.37	.01	--
14...	--	--	--	--	--	--	--	--	--	--

?: QUESTIONABLE ANALYTICAL RESULT NOT VERIFIED BY REDETERMINATION.

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
NOV 09...	0830	3	1	180	130	<10	1	0
FEB 08...	0815	6	6	?400	140	<10	1	0
MAY 03...	0800	4	3	150	130	10	1	0
AUG 09...	0800	2	3	200	140	<10	3	10

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
NOV 09...	0	<50	0	<10	1	20	10	<100	0
FEB 08...	0	<50	0	<10	4	160	20	<100	11
MAY 03...	0	<50	0	<10	1	50	10	<100	0
AUG 09...	0	<50	0	<10	2	120	0	<100	15

DATE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 09...	0	10	?1.3	.0	3	2	10	10
FEB 08...	10	0	.2	.0	3	3	10	0
MAY 03...	10	10	.0	.0	3	3	10	0
AUG 09...	8	0	.0	.2	6	6	50	10

?: QUESTIONABLE ANALYTICAL RESULT NOT VERIFIED BY REDETERMINATION.

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 5,76	NOV 9,76	DEC 7,76	JAN 11,77	FEB 8,77
TIME	0800	0830	0815	0800	0815
TOTAL CELLS/ML	200	870	480	42	30
DIVERSITY: DIVISION	1.1	0.2	0.5	1.3	1.0
.CLASS	1.1	0.2	0.5	1.3	1.0
..ORDER	1.2	0.6	0.5	1.5	1.0
...FAMILY	2.0	0.7	0.5	2.1	1.8
....GENUS	2.0	0.7	0.8	2.4	2.1

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	30	6	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	12#	29	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	3	7	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	17	8	--	-	--	-	12#	29	12#	40
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	4	2	--	-	--	-	--	-	--	-
...PHACOTACEAE										
....PHACOTUS	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....SPONDYLOSIUM	*	0	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	4	2	--	-	--	-	6	14	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	3	7	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	4	1	--	-	6#	20
...NAVICULACEAE										
....NAVICULA	21	10	20	2	*	0	--	-	6#	20
....STAURONEIS	--	-	--	-	--	-	--	-	3	10
...NITZSCHIACEAE										
....NITZSCHIA	4	2	10	1	6	1	--	-	3	10
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....AGMENELLUM	--	-	79	9	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....CYLINDROSPERMUM	68#	33	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	760#	88	28	6	--	-	--	-
....OSCILLATORIA	85#	42	--	-	410#	86	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	*	0	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	6	14	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	MAY 3,77	JUN 7,77	JUL 12,77	AUG 9,77	SEP 13,77
TIME	0800	0740	0800	0800	0745
TOTAL CELLS/ML	1300	10	13	5	36
DIVERSITY: DIVISION	0.5	0.0	0.0	0.0	1.4
.CLASS	0.5	0.0	0.0	0.0	1.4
..ORDER	0.6	0.9	0.0	0.0	1.4
...FAMILY	0.6	0.9	0.9	0.0	2.1
....GENUS	0.7	0.9	0.9	0.0	2.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	11	1	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	*	0	--	-	--	-	--	-	--	-
....OOCYSTIS	19	1	--	-	--	-	--	-	--	-
....SELENASTRUM	8	1	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	21	2	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	4	10
...PHACOTACEAE										
....PHACOTUS	--	-	--	-	--	-	--	-	4	10
..ZYGNEMATALES										
...DESMIDIACEAE										
....SPONDYLOSIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-
....MELOSIRA	23	2	6#	67	--	-	--	-	--	-
..PENNALES										
...CYMBELLACEAE										
....CYMBELLA	*	0	3#	33	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	4#	33	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	8	1	--	-	--	-	--	-	--	-
....FRAGILARIA	*	0	--	-	--	-	--	-	--	-
....SYNEDRA	*	0	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	8#	67	5#	100	7#	20
....STAURONEIS	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	*	0	--	-	--	-	--	-	14#	40
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	7#	20
..HORMOGONALES										
...NOSTOCACEAE										
....CYLINDROSPERMUM	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	1200#	91	--	-	--	-	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	*	0	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Retrieval Date	Length of exposure Polyethylene strip (days)	Biomass (mg/m²) Dry weight	Biomass (mg/m²) Ash weight	Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
Dec 7	28	20,150	17,460	5.94	1.13	453
Sep 13	35	1,890	1,570	.10	.009	3048

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT					
05...	1155	3100	2	17	66
NOV					
09...	1255	11300	0	.00	--
DEC					
07...	1230	5820	1	16	55
JAN					
11...	1330	2550	1	6.9	62
FEB					
08...	1235	16200	1	44	84
MAR					
08...	1210	25000	1	67	67
APR					
12...	1225	32000	1	86	81
MAY					
03...	1500	31700	1	86	66
JUN					
07...	1210	23900	2	129	53
JUL					
12...	1135	27000	1	73	62
AUG					
09...	1235	32700	1	88	53
SEP					
13...	1135	14400	1	36	72

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW¼SW¼ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi (47 km) west of Kingman, Ariz., and 67 mi (108 km) downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi² (448,800 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft (2,230 hm³) between elevations 533.39 ft (162.577 m)—lowest point of penstock outlet—and 647.0 ft (197.21 m)—top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft (10.5 hm³) below elevation 533.39 ft (162.577 m). Lake is used for power development, re-regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft (2,230 hm³) May 24, 1958, May 29, 1963; maximum elevation, 647.04 ft (197.218 m) May 29, 1963; minimum contents (since 1952), 1,168,000 acre-ft (1,440 hm³) Sept. 8, 1953 (elevation, 622.15 ft or 189.631 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,796,000 acre-ft (2,210 hm³) May 19 (elevation, 646.50 ft or 197.053 m); minimum contents, 1,377,000 acre-ft (1,700 hm³) Aug. 15 (elevation 630.75 ft or 192.253 m).

Capacity table (elevation, in feet, and usable contents, in acre-feet)

629	1,334,000	641	1,644,000
632	1,409,000	644	1,726,000
635	1,486,000	647	1,810,000
638	1,564,000		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1729000	1661000	1670000	1717000	1672000	1694000	1706000	1744000	1743000	1590000	1429000	1525000
2	1731000	1664000	1670000	1712000	1673000	1693000	1690000	1757000	1740000	1565000	1428000	1521000
3	1742000	1659000	1661000	1718000	1672000	1704000	1678000	1765000	1740000	1543000	1433000	1520000
4	1719000	1656000	1655000	1720000	1671000	1715000	1677000	1770000	1739000	1514000	1435000	1511000
5	1705000	1657000	1649000	1701000	1661000	1709000	1674000	1777000	1722000	1498000	1440000	1492000
6	1696000	1667000	1662000	1750000	1656000	1701000	1666000	1776000	1720000	1497000	1429000	1499000
7	1667000	1662000	1660000	1756000	1663000	1710000	1644000	1768000	1723000	1496000	1414000	1508000
8	1661000	1660000	1662000	1753000	1664000	1723000	1660000	1763000	1722000	1494000	1410000	1518000
9	1668000	1661000	1665000	1756000	1669000	1734000	1667000	1772000	1722000	1472000	1412000	1522000
10	1656000	1667000	1666000	1757000	1673000	1740000	1634000	1774000	1715000	1460000	1416000	1519000
11	1653000	1653000	1638000	1755000	1671000	1740000	1631000	1775000	1701000	1453000	1416000	1511000
12	1652000	1659000	1633000	1757000	1661000	1720000	1630000	1776000	1690000	1453000	1408000	1515000
13	1658000	1654000	1630000	1760000	1656000	1712000	1638000	1779000	1680000	1458000	1393000	1510000
14	1661000	1660000	1627000	1764000	1662000	1715000	1638000	1778000	1685000	1472000	1389000	1510000
15	1671000	1667000	1629000	1760000	1670000	1715000	1630000	1776000	1680000	1476000	1385000	1517000
16	1668000	1670000	1637000	1771000	1692000	1719000	1616000	1772000	1686000	1467000	1409000	1512000
17	1663000	1662000	1645000	1773000	1696000	1724000	1609000	1787000	1680000	1458000	1434000	1505000
18	1676000	1664000	1649000	1768000	1692000	1725000	1610000	1793000	1677000	1452000	1470000	1496000
19	1662000	1653000	1648000	1765000	1677000	1718000	1620000	1796000	1666000	1452000	1516000	1485000
20	1690000	1681000	1653000	1757000	1667000	1710000	1636000	1789000	1660000	1450000	1537000	1478000
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	---	[illegible]	[illegible]	---	[illegible]	---	[illegible]	---	[illegible]	[illegible]	---
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
†	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
‡	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1976 MAX [illegible] MIN [illegible] ‡ [illegible]
WTR YR 1977 MAX [illegible] MIN [illegible] ‡ [illegible]

† Elevation, in feet at end of month.
‡ Change in contents, in acre-feet.

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE¼NE¼ sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, Hydrologic Unit 15030101, on right bank 0.5 mi (0.8 km) downstream from Davis Dam, 29 mi (47 km) west of Kingman, Ariz., and 68 mi (109 km) downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi² (448,800 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1905 to September 1907 (published as "at Hardyville"), March 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.40 m) above mean sea level; gage readings have been reduced to elevations above mean sea level. 1905-7, nonrecording gage at site 4.8 mi (7.7 km) downstream at datum about 13.4 ft (4.1 m) lower. Mar. 16 to May 3, 1949, water-stage recorder at site 0.5 mi (0.8 km) downstream at present datum. May 4, 1949, to Feb. 24, 1956, water-stage recorder at site 400 ft (120 m) upstream at present datum.

REMARKS.--Records excellent. Flow regulated by Lake Mead since Feb. 1, 1935, and by Lake Mohave since Jan. 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

AVERAGE DISCHARGE.--28 years (1949-77), 12,500 ft³/s (354.0 m³/s), 9,056,000 acre-ft/yr (11,200 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft³/s (3,290 m³/s) June 20, 1906; minimum daily, 2,850 ft³/s (80.7 m³/s) Jan. 5, 1906.

1949-77: Maximum discharge, 31,200 ft³/s (884 m³/s) Apr. 22, 1952 (elevation, 513.91 ft or 156.640 m); no flow at Davis Dam parts of several days July to September 1950 and Dec. 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s (8.07 m³/s) Aug. 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,100 ft³/s (796 m³/s) Mar. 4 (elevation, 506.16 ft or 154.278 m); minimum daily discharge, 2,010 ft³/s (56.9 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2230	5880	9750	4200	9490	11200	16300	11700	14400	19800	20000	16400
2	2010	5230	9370	6120	9750	11300	16400	14900	14400	19900	18900	13000
3	2030	5260	10800	4600	11100	10300	10000	15600	15700	15800	17400	9040
4	8650	5250	8540	4450	10700	11100	15400	15600	15900	20300	17400	9110
5	9100	5210	5390	3430	10400	11100	16100	16700	15300	20600	18100	15700
6	8550	6020	8820	3400	7740	10200	17500	16800	16400	20200	18900	17400
7	8460	6900	8820	2770	12100	11100	16200	14900	15600	16900	13900	8490
8	8490	7020	8330	2250	12300	11400	18800	11700	15300	18800	20400	8760
9	9040	6920	8380	2190	11300	12700	17700	13600	16700	19800	17600	7200
10	9670	5570	6520	2450	9900	15400	12000	12500	15800	12100	15000	6960
11	9010	5740	7900	3170	11100	15600	17000	12900	16700	19900	17400	4040
12	8150	6800	6320	2340	11600	14400	18200	11900	11700	18300	19000	4100
13	7780	6880	9100	2970	8310	10200	17000	6700	14300	14900	19000	4960
14	7670	6070	10200	2160	12300	15400	18100	9740	13900	16400	13800	5890
15	7380	4930	6430	2200	11000	15500	17400	9880	13900	18500	18500	5410
16	7620	5580	6720	3640	11500	15600	16300	9560	12700	18100	6410	6400
17	6980	6760	7210	4360	10500	15600	12000	9150	10050	13200	3510	7410
18	7000	6800	7130	4980	11600	17000	17100	9780	15100	20100	2560	8540
19	7610	6170	5360	4520	12700	16500	17600	13600	12000	19100	2200	11700
20	7080	5550	6220	6600	9290	10600	18700	16000	16100	15000	5010	12500
21	7620	5390	6190	4360	12600	15500	17100	15200	17000	15400	2250	11500
22	5720	5970	6970	4530	11500	16500	17400	11700	15400	16400	10400	9430
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	---	[illegible]	[illegible]	---	[illegible]	---	[illegible]	---	[illegible]	[illegible]	---
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AC-FT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1976 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] AC-FT [illegible]
WTR YR 1977 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] AC-FT [illegible]

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1949 to October 1969, April 1970 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: July to October 1969 and April 1970 to current year, monthly.
WATER TEMPERATURES: March 1949 to June 1969, variable frequency of measurement; July to October 1969 and April 1970 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD SINCE JULY 1969.--
SPECIFIC CONDUCTANCES: Maximum, 1,290 micromhos Jan. 12, 1971; minimum, 900 micromhos Dec. 14, 1970.
WATER TEMPERATURES: Maximum, 21.5°C Sept. 21, 1969; minimum, 8.5°C Feb. 1, 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
OCT 01...	0915	2720	1070	7.8	19.0	340	86	30	100	2.4	4.9
NOV 01...	0900	9400	1070	8.1	17.5	330	80	31	100	2.4	4.8
DEC 01...	0900	13190	1080	8.0	14.0	320	78	31	100	2.4	5.1
JAN 03...	1130	4820	1080	8.2	11.0	310	76	29	100	2.5	5.0
FEB 01...	1030	13800	1080	8.2	10.5	320	82	28	100	2.4	4.7
MAR 01...	1230	14300	1080	8.2	12.5	330	81	30	100	2.4	4.9
APR 01...	1000	23600	1080	8.4	14.0	330	82	31	100	2.4	4.7
MAY 02...	1320	21100	1060	8.2	16.5	330	83	30	100	2.4	4.6
JUN 01...	0930	17200	1060	8.3	17.5	330	83	29	100	2.4	4.7
JUL 01...	0740	23000	1060	7.5	19.0	320	81	29	100	2.4	4.5
AUG 01...	0845	26480	1060	7.7	21.0	310	78	28	100	2.5	4.6
SEP 01...	0800	17640	1070	7.7	19.0	320	82	29	100	2.4	4.6

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
OCT 01...	151	0	300	84	.4	8.2	704	690	5170	150	20
NOV 01...	153	0	300	85	.3	8.5	715	686	18100	130	10
DEC 01...	144	0	310	89	.3	9.3	710	696	25300	140	0
JAN 03...	147	0	290	90	.3	8.7	727	678	9460	150	10
FEB 01...	150	0	290	90	.3	7.9	714	673	26600	150	9
MAR 01...	161	0	300	94	.3	8.1	709	690	27000	130	0
APR 01...	164	2	290	87	.3	8.2	711	675	45300	130	10
MAY 02...	160	0	287	82	.4	7.9	696	660	39500	120	20
JUN 01...	160	0	280	84	.4	7.6	650	669	32300	130	10
JUL 01...	150	0	290	88	.3	8.5	650	670	40000	130	0
AUG 01...	150	0	290	84	.4	8.8	690	665	[illegible]	130	20
SEP 01...	160	0	280	88	.3	8.2	687	672	[illegible]	140	10

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'50", long 114°32'20", in NW¼ sec.34, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060008, on right bank 2 mi (3.2 km) downstream from North Fork, 4 mi (6.4 km) southwest of Cleveland Ranch headquarters, and 18 mi (29.0 km) east of Ely.

DRAINAGE AREA.--31.8 mi² (82.4 km²).

PERIOD OF RECORD.--June 1914 to December 1916 (published as Cleveland Creek near Osceola), October 1959 to September 1967, October 1976 to September 1977; crest-stage partial record station October 1967 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m), approximately from topographic map. Oct. 1, 1967 to Sept. 30, 1967 crest-stage gage at same site and datum.

REMARKS.--Records good except those for winter months, which are poor. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

AVERAGE DISCHARGE.--11 years (1915-16, 1960-67, 1977), 8.65 ft³/s (0.245 m³/s), 6,270 acre-ft/yr (7.73 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125 ft³/s (3.54 m³/s) June 13, 1967; maximum gage height, 3.55 ft (1.082 m), Nov. 29, 1976 (backwater from ice); minimum discharge, 2.3 ft³/s (0.065 m³/s) Feb. 27, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 25 ft³/s (0.708 m³/s) June 4 (0300 hrs) gage height 2.55 ft (0.777 m), maximum gage height, 3.55 ft (1.082 m) Nov. 29, backwater from ice, no other peak above base of 20 ft³/s (0.566 m³/s); minimum 3.2 ft³/s (0.091 m³/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	6.7	6.3	6.0	5.1	5.2	4.9	7.0	18	8.0	5.5	5.6
2	8.8	6.7	6.5	6.0	5.1	5.1	5.1	6.7	21	7.9	5.8	5.5
3	7.6	6.7	6.4	6.0	5.0	5.2	5.6	6.7	23	7.4	5.5	5.6
4	7.3	6.6	6.4	5.8	5.0	5.4	5.4	6.7	24	7.2	6.1	5.5
5	7.3	6.6	6.4	5.4	5.0	5.0	5.5	7.2	24	7.0	6.1	5.4
6	7.3	6.5	6.6	5.2	5.1	5.2	5.7	7.1	24	6.6	5.8	5.3
7	7.3	6.4	6.2	5.3	5.1	5.3	5.8	7.4	23	6.4	5.5	5.3
8	7.3	6.4	6.4	5.3	5.2	5.2	6.1	7.6	23	6.4	5.5	5.3
9	7.3	6.4	6.3	5.2	5.0	5.3	6.1	7.2	21	6.2	5.5	5.3
10	7.3	6.4	6.1	5.3	5.1	5.1	6.1	7.1	19	6.2	5.2	6.1
11	7.3	6.4	6.0	5.3	5.0	5.3	6.1	6.8	17	6.1	5.2	6.7
12	7.3	6.4	6.0	5.3	5.0	5.6	6.2	6.8	16	5.9	5.2	6.6
13	7.4	6.4	6.2	5.2	5.1	5.2	6.4	6.7	14	5.9	5.5	6.0
14	7.0	6.7	6.2	5.1	5.1	5.2	6.5	6.7	13	5.8	5.2	6.0
15	7.3	6.5	6.2	5.2	5.1	5.3	6.5	7.1	13	5.8	5.1	5.5
16	7.3	6.5	6.1	5.2	5.1	5.2	6.7	7.9	12	5.7	5.3	5.4
17	7.2	6.4	6.0	5.2	5.1	5.1	6.9	7.2	11	5.7	6.1	5.6
18	7.4	6.4	6.1	5.2	5.0	5.1	7.1	7.2	10	5.6	6.3	5.4
19	7.4	6.4	5.8	5.2	5.0	5.1	6.8	7.2	9.9	6.3	6.5	5.3
20	7.3	6.4	5.6	5.2	5.0	5.1	6.7	7.5	9.7	6.1	6.8	5.3
21	7.2	6.2	5.6	5.6	5.2	5.1	6.6	8.6	10	6.4	7.2	5.3
22	7.2	6.1	6.6	5.6	5.2	5.2	6.4	7.7	9.4	6.4	6.8	5.3
23	7.1	6.1	5.6	5.2	5.2	5.2	6.4	7.9	8.9	6.4	7.5	5.3
24	7.1	6.1	5.8	5.2	5.2	5.4	6.4	9.2	8.7	6.4	7.3	5.2
25	7.0	6.1	5.7	5.0	5.4	5.3	6.4	9.8	8.6	6.4	6.9	5.1
26	6.9	5.8	5.6	6.6	5.4	5.2	6.5	10	8.6	6.1	6.9	5.4
27	6.9	5.9	5.6	6.5	5.3	5.2	6.5	12	8.2	6.1	6.9	5.4
28	6.8	5.6	5.4	6.2	5.2	5.1	6.5	11	7.9	5.8	6.9	5.4
29	6.9	5.5	5.8	5.5	---	4.9	6.6	12	7.8	5.8	6.4	5.4
30	6.8	5.7	5.6	5.6	---	4.7	6.6	12	7.6	5.8	6.1	5.5
31	6.7	---	5.8	5.3	---	4.8	---	14	---	5.8	6.1	---
TOTAL	225.3	188.6	188.7	165.0	144.3	160.5	187.1	255.6	451.3	190.6	197.3	166.6
MEAN	7.27	6.29	6.08	5.32	5.12	5.17	6.24	8.25	15.0	6.35	6.36	5.55
MAX	8.8	6.7	6.6	6.0	5.4	5.6	7.1	14	24	8.0	9.3	6.7
MIN	6.7	5.4	5.6	5.0	5.0	4.7	4.9	6.7	7.6	5.6	5.1	5.1
AC-FT	447	374	374	327	286	318	371	508	895	378	391	330

WTR YR 1977 TOTAL 2501.1 MEAN 6.85 MAX 24 MIN 4.7 AC-FT 4960

RUBY VALLEY

10244720 FRANKLIN RIVER NEAR ARTHUR, NV

LOCATION.--Lat 40°49'25", long 115°08'10", in SE¼SW¼ sec.18, T.34 N., R.61 E., Elko County, Hydrologic Unit 16060007, in Humboldt National Forest, on right bank 1 mi (2 km) above Horse Creek and 3.5 mi (5.6 km) northeast of Arthur.

DRAINAGE AREA.--10.3 mi² (26.7 km²).

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,567.30 ft (2,001.713 m) above mean sea level, datum of 1929.

REMARKS.--Records good except those for winter periods, which are poor. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--13 years, 11.3 ft³/s (0.320 m³/s), 8,190 acre-ft/yr (10.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 197 ft³/s (5.58 m³/s) June 6, 1975, gage height, 2.79 ft (0.850 m), from rating curve extended above 106 ft³/s (3.00 m³/s); minimum daily, 0.62 ft³/s (0.018 m³/s) Aug. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft³/s (2.18 m³/s) at 1900 hours, June 5, gage height, 2.55 ft (0.777 m), no other peak above base of 60 ft³/s (1.70 m³/s); minimum, 0.62 ft³/s (0.018 m³/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.3	2.1	1.0	1.8	2.2	3.4	18	47	6.4	.80	.90
2	5.0	2.2	2.1	1.2	1.8	2.1	3.4	15	55	7.2	.62	.90
3	6.8	2.2	2.2	2.0	1.7	2.0	3.5	15	54	6.4	.70	.80
4	3.6	2.1	2.0	2.4	1.6	2.1	3.6	14	55	6.0	.85	.80
5	3.6	2.1	2.0	2.0	1.7	2.1	3.8	13	54	5.8	1.2	.75
6	3.7	2.1	2.0	1.9	1.9	2.2	4.2	12	51	5.0	1.3	.85
7	3.7	2.1	2.1	2.1	2.0	2.2	4.5	12	44	4.7	1.1	.70
8	3.4	2.2	2.2	2.2	1.8	2.4	5.0	12	36	4.6	.85	.70
9	3.2	2.2	2.2	2.3	1.6	2.4	5.8	11	34	4.1	.80	.80
10	3.1	2.2	2.3	2.5	1.4	2.7	6.8	11	27	3.8	.80	.75
11	3.1	2.2	2.2	2.5	1.6	2.8	8.4	11	26	3.7	.80	.80
12	3.1	2.2	2.2	2.6	1.8	2.7	9.7	11	23	3.6	.90	.80
13	3.2	2.1	2.2	2.6	2.0	2.5	11	12	21	3.3	.96	.85
14	3.1	2.2	2.1	2.6	2.1	2.6	9.6	12	19	3.2	1.0	1.1
15	3.2	2.4	2.0	2.6	2.2	2.8	10	12	17	3.1	.91	1.3
16	3.1	3.2	2.0	2.5	2.1	3.0	13	12	16	2.9	.75	1.4
17	3.0	2.8	1.4	2.5	2.1	2.9	15	13	15	2.7	1.3	2.0
18	3.0	2.7	1.2	2.4	2.0	2.8	14	13	14	2.7	3.3	1.7
19	3.0	2.6	1.2	2.5	2.0	2.8	12	13	13	2.5	1.9	1.4
20	3.0	2.4	1.0	2.5	2.1	2.9	12	15	12	2.4	1.6	1.5
21	2.9	2.3	.80	2.5	2.2	2.9	14	17	12	2.4	1.8	1.6
22	2.9	2.3	1.0	2.5	2.3	2.8	15	21	11	2.4	1.4	1.7
23	2.8	2.2	1.0	2.5	2.2	3.0	18	21	10	2.6	1.2	1.9
24	2.8	2.3	.90	2.4	2.1	3.0	21	22	9.6	2.7	1.1	1.9
25	2.7	2.2	1.1	2.4	2.0	2.9	22	22	9.0	2.2	1.2	1.7
26	2.8	2.2	1.1	2.4	2.0	2.8	24	22	8.6	1.5	1.4	1.6
27	2.6	2.2	.70	2.5	2.2	2.9	24	24	7.9	1.3	1.4	1.5
28	2.6	2.2	.60	2.6	2.5	3.0	22	23	7.6	1.2	1.2	1.5
29	2.6	2.1	.70	2.3	---	3.2	22	23	6.8	1.0	1.2	1.7
30	2.5	2.1	1.1	2.1	---	3.5	20	23	6.4	.96	.96	2.4
31	2.4	---	1.3	2.0	---	3.3	---	30	---	.85	.96	---
TOTAL	98.9	68.6	49.00	71.1	54.8	83.5	360.7	505	722.1	103.21	36.30	38.30
MEAN	3.19	2.29	1.58	2.29	1.96	2.69	12.0	16.3	24.1	3.33	1.17	1.28
MAX	6.8	3.2	2.3	2.6	2.5	3.5	24	30	55	7.2	3.3	2.4
MIN	2.4	2.1	.60	1.0	1.4	2.0	3.4	11	6.4	.85	.62	.70
AC-FT	196	136	97	141	109	166	715	1000	1430	205	72	76

CAL YR 1976 TOTAL 3376.00 MEAN 9.22 MAX 67 MIN .60 AC-FT 6700
WTR YR 1977 TOTAL 2191.50 MEAN 6.00 MAX 55 MIN .60 AC-FT 4350

10244745 OVERLAND CREEK NEAR RUBY VALLEY, NV

LOCATION.--Lat 47°27'30", long 115°23'30", in SE¼SE¼ sec.23, T.30 N., R.58 E., Elko County, Hydrologic Unit 16060007, on left bank at mouth of canyon, 0.1 mi (0.2 km) upstream from Humboldt National Forest boundary, 2.2 mi (3.6 km) north of Ruby Valley Post Office, and 32 mi (51 km) southeast of Elko.

DRAINAGE AREA.--9 mi² (23 km²).

PERIOD OF RECORD.--April to November 1917, March to June 1918, September 1918 (fragmentary), August 1959 to September 1967, October 1967 to September 1976 (operated as a partial-record site), October 1976 to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,970 m), from topographic map. Prior to Aug. 23, 1959, at site about one-eighth of a mile downstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--9 years (1959-67, 1977), 10.7 ft³/s (0.303 m³/s), 7,750 acre-ft/yr (9.56 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152 ft³/s (4.30 m³/s) June 11, 1962, gage height, 2.23 ft (0.680 m); maximum gage height, 3.31 ft (1.009 m) Jan. 13, 1963 (backwater from ice); minimum discharge, 0.4 ft³/s (0.011 m³/s) Dec. 25, 1962, but may have been less during periods of ice effects.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft³/s (2.04 m³/s) June 8 (1500 hrs), gage height, 1.70 ft (0.518 m), no other peak above base of 50 ft³/s (1.42 m³/s); minimum daily, 1.2 ft³/s (0.034 m³/s) Jan. 6-9, Sept. 6-10, 12-14, 26-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.2	1.9	1.6	1.8	1.9	2.9	21	35	10	2.6	1.5
2	3.4	2.2	2.0	1.9	1.8	1.8	2.9	18	46	10	2.6	1.5
3	4.0	2.2	2.0	1.7	1.8	1.9	3.0	17	53	10	2.6	1.4
4	3.3	2.2	2.0	1.4	1.9	1.9	3.4	15	58	9.9	2.4	1.4
5	3.1	2.2	2.0	1.4	1.9	1.7	4.2	14	58	9.1	2.4	1.4
6	3.2	2.2	2.0	1.2	1.9	1.7	5.3	13	57	8.3	2.3	1.2
7	3.2	2.2	2.0	1.2	1.9	1.7	6.7	12	55	7.6	2.2	1.2
8	3.2	2.0	2.0	1.2	1.9	2.0	8.4	11	55	7.3	2.0	1.2
9	3.2	2.0	2.0	1.2	2.0	2.2	9.0	12	52	6.7	1.9	1.2
10	3.1	2.0	1.9	1.4	2.0	2.5	8.9	12	38	6.4	1.8	1.2
11	3.1	2.2	1.9	1.4	2.0	2.3	9.1	12	30	6.7	1.8	1.3
12	3.0	2.0	2.0	1.6	2.0	2.4	10	12	27	6.1	1.8	1.2
13	3.0	2.0	2.0	1.6	2.0	2.3	10	12	24	5.8	1.8	1.2
14	3.0	2.2	1.9	1.8	2.0	2.3	10	12	22	5.6	1.7	1.2
15	2.9	2.2	1.9	1.9	2.0	2.2	10	12	22	5.3	1.7	1.3
16	2.9	2.3	1.9	1.9	2.0	2.2	12	12	20	5.0	1.6	1.3
17	2.7	2.3	1.9	1.8	2.0	2.2	12	12	19	5.0	2.2	1.5
18	2.6	2.3	1.9	1.9	2.0	2.4	12	12	18	4.8	3.6	1.4
19	2.6	2.3	2.0	1.9	2.0	2.4	11	12	18	4.8	2.5	1.3
20	2.6	2.3	2.0	1.9	1.9	2.2	12	13	16	4.8	2.4	1.4
21	2.6	2.3	1.8	1.8	2.0	2.5	13	16	15	4.8	2.3	1.5
22	2.6	2.3	1.8	1.7	2.0	2.7	15	16	14	4.8	1.9	1.4
23	2.4	2.2	1.9	1.6	1.9	3.0	17	16	13	4.8	1.8	1.5
24	2.4	2.2	1.7	1.5	1.9	3.0	23	16	14	5.0	1.8	1.3
25	2.4	2.2	1.5	1.6	1.9	3.0	27	16	15	4.4	1.8	1.3
26	2.4	2.1	1.8	1.8	1.8	3.6	29	16	14	3.9	2.0	1.2
27	2.4	2.0	1.9	1.7	1.9	3.2	26	16	13	3.7	2.0	1.2
28	2.3	1.9	1.9	1.7	1.9	3.0	26	16	11	3.6	1.8	1.2
29	2.3	1.9	2.0	1.7	---	3.0	26	16	11	3.2	1.7	1.2
30	2.3	1.9	1.8	1.8	---	3.2	26	17	9.8	3.0	1.6	1.4
31	2.3	---	1.8	1.8	---	2.9	---	22	---	2.7	1.6	---
TOTAL	86.6	64.5	58.7	50.6	54.1	75.1	388.0	449	852.8	182.9	64.2	39.5
MEAN	2.79	2.15	1.89	1.63	1.93	2.42	13.0	14.5	28.4	5.90	2.07	1.32
MAX	4.0	2.3	2.0	1.9	2.0	3.6	29	22	58	10	3.6	1.5
MIN	2.3	1.9	1.5	1.2	1.8	1.7	2.9	11	9.8	2.7	1.6	1.2
AC-FT	172	128	116	100	107	149	771	891	1690	363	127	78

WTR YR 1977 TOTAL 2366.9 MEAN 6.48 MAX 58 MIN 1.2 AC-FT 4690

10244950 STEPTOE CREEK NEAR ELY, NV
(Hydrologic bench-mark station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW¼SW¼ sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank 0.1 mi (0.2 km) downstream from Clear Creek, 0.8 mi (1.3 km) upstream from Cave Creek, and 11 mi (18 km) east-southeast of Ely.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage and thermograph recorders. Altitude of gage is 7,440 ft (2,268 m), from topographic map.

REMARKS.--Records excellent.

AVERAGE DISCHARGE.--11 years, 6.71 ft³/s (0.190 m³/s) 4,860 acre-ft/yr (5.99 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36 ft³/s (1.02 m³/s) May 20, 21, 1973, gage height, 2.70 ft (0.823 m); maximum gage height, 2.73 ft (0.832 m) June 19, 1967; minimum discharge, 2.0 ft³/s (0.057 m³/s) Dec. 22, 1966, Mar. 3, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft³/s (0.28 m³/s) June 3, gage height, 2.01 ft (0.613 m); minimum, 2.4 ft³/s (0.068 m³/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.2	3.6	2.8	3.2	3.2	3.0	3.5	7.9	5.2	3.9	3.8
2	5.1	4.2	3.6	2.8	3.1	3.2	2.9	3.3	9.2	5.1	3.9	3.7
3	4.6	4.2	3.6	2.8	3.0	3.2	2.8	3.3	9.8	5.0	3.8	3.7
4	4.3	4.2	3.6	2.8	3.0	3.0	2.9	3.3	9.6	5.0	3.9	3.7
5	4.3	4.2	3.6	2.8	3.0	3.0	3.3	3.4	9.0	4.9	3.9	3.7
6	4.2	4.2	3.5	3.0	3.0	3.0	3.4	3.4	8.7	4.8	3.7	3.6
7	4.2	4.2	3.6	3.0	3.0	3.0	3.6	3.2	8.6	4.7	3.9	3.4
8	4.2	4.1	3.6	3.0	3.0	3.0	3.8	3.2	8.2	4.7	3.9	3.4
9	4.2	4.2	3.5	2.9	3.0	3.0	4.0	3.2	8.1	4.7	3.9	3.4
10	4.2	4.2	3.4	3.0	3.0	2.8	3.9	3.2	7.9	4.6	3.8	3.4
11	4.3	4.1	3.4	3.0	3.0	2.7	3.7	3.1	7.5	4.5	3.7	3.5
12	4.3	4.1	3.4	3.0	3.0	2.8	3.6	2.9	7.2	4.5	3.8	3.4
13	4.2	4.0	3.4	3.0	3.2	2.8	3.6	2.9	6.9	4.5	3.7	3.4
14	4.2	4.0	3.5	2.9	3.2	2.8	3.5	2.9	6.8	4.4	3.8	3.4
15	4.2	3.9	3.4	3.0	3.2	2.7	3.5	3.0	6.6	4.3	3.7	3.4
16	4.2	4.0	3.3	3.0	3.2	2.6	3.5	3.0	6.5	4.3	3.7	3.4
17	4.2	4.0	3.3	3.0	3.4	2.6	3.6	3.1	6.2	4.2	4.1	3.6
18	4.2	4.0	3.3	3.0	3.4	2.5	3.5	3.2	6.1	4.2	4.1	3.4
19	4.2	4.0	3.2	3.0	3.4	2.6	3.3	3.2	6.1	4.2	4.4	3.4
20	4.2	3.9	3.0	3.0	3.4	2.6	3.3	3.3	6.1	4.2	4.2	3.4
21	4.2	3.8	2.9	3.0	3.6	2.8	3.4	3.6	6.1	4.1	4.1	3.3
22	4.2	3.8	3.0	3.0	3.5	2.6	3.4	3.8	5.5	4.0	4.0	3.4
23	4.2	3.8	3.0	3.1	3.4	2.8	3.4	4.0	5.7	4.0	4.0	3.3
24	4.2	3.8	3.0	3.2	3.4	3.0	3.5	4.1	5.6	4.1	4.0	3.3
25	4.2	3.8	2.8	3.2	3.4	2.9	3.5	4.2	5.5	4.0	4.0	3.3
26	4.2	3.6	2.6	3.2	3.2	2.7	3.5	4.7	5.8	4.1	4.0	3.3
27	4.2	3.7	3.0	3.2	3.2	2.7	3.6	5.4	5.3	4.1	4.0	3.3
28	4.2	3.6	2.9	3.2	3.2	2.7	3.6	5.9	5.2	4.0	3.9	3.3
29	4.2	3.6	2.9	3.2	---	2.6	3.6	6.0	5.2	4.0	3.8	3.2
30	4.2	3.6	2.9	3.2	---	2.6	3.6	6.3	5.1	3.9	3.8	3.6
31	4.2	---	2.8	3.2	---	2.6	---	6.3	---	3.9	3.8	---
TOTAL	132.4	119.5	103.6	93.5	89.4	87.3	103.2	117.6	208.3	136.2	121.2	103.2
MEAN	4.27	3.98	3.34	3.02	3.19	2.81	3.44	3.79	6.94	4.39	3.91	3.44
MAX	5.1	4.2	3.6	3.2	3.6	3.2	4.0	6.3	9.8	5.2	4.4	3.8
MIN	4.2	3.6	2.6	2.8	3.0	2.5	2.8	2.9	5.1	3.9	3.7	3.2
AC-FT	263	237	205	185	177	173	205	233	413	270	240	205

CAL YR 1976 TOTAL 1665.5 MEAN 4.55 MAX 9.5 MIN 2.8 AC-FT 3300
WTR YR 1977 TOTAL 1415.4 MEAN 3.88 MAX 9.8 MIN 2.5 AC-FT 2810

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1966 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: March 1968 to current year, monthly.
BIOLOGICAL DATA: May 1975 to current year, twice-yearly.
MICROBIOLOGICAL DATA: October 1974 to current year, monthly.
WATER TEMPERATURES: October 1966 to current year, continuous.
SEDIMENT DATA: February 1968 to September 1975, monthly; October 1975 to current year, occasionally (at times of noticeable turbidity or high discharge).

INSTRUMENTATION.--Temperature recorder since October 1966.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 403 micromhos May 18, 1975; minimum, 249 micromhos Jan. 27, 1971.
WATER TEMPERATURES: Maximum, 11.0°C on several days in May 1968 and during July 31 - Sept. 9, 1969; minimum, 2.5°C Dec. 9, 1972.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 810 mg/L May 18, 1975; minimum, 3 mg/L Aug. 21, 1973, Aug. 20, 1974, Oct. 1, 1974.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 10.5°C Apr. 24, July 2; minimum measured, 4.5°C Dec. 24, 25, Jan. 26, Feb. 23, and several days in March (temperature may have been lower during cold period of missing record, Jan. 5-19).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT									
14...	1130	4.2	294	--	7.5	--	110	0	2
DEC									
22...	1555	3.1	318	8.6	6.0	9.4	130	0	0
JAN									
19...	1225	2.9	318	--	6.5	--	0	--	4
FEB									
23...	1720	3.4	318	--	6.0	--	--	0	B1400
MAR									
24...	0945	3.0	319	8.6	6.0	8.8	--	--	--
APR									
21...	1615	3.2	316	--	9.0	--	250	0	120
MAY									
18...	1105	3.3	277	8.7	6.0	9.0	180	0	5
JUN									
23...	1515	5.4	297	--	9.5	--	230	0	51
JUL									
20...	1615	4.1	277	8.2	9.5	--	0	0	100
AUG									
24...	1700	3.9	302	8.6	10.0	8.6	710	8	39
SEP									
21...	1420	3.2	290	8.4	9.0	--	0	0	16

B: NON-IDEAL COLONY COUNT.

DATE	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT									
14...	--	--	--	--	--	.5	--	--	--
DEC									
22...	180	58	11	1.6	.1	.5	199	0	7.4
JAN									
19...	--	--	--	--	--	--	--	--	--
FEB									
23...	--	--	--	--	--	--	--	--	--
MAR									
24...	180	57	11	1.5	.0	.5	192	0	7.7
APR									
21...	--	--	--	--	--	--	--	--	--
MAY									
18...	180	56	11	1.5	.0	.5	172	0	6.6
JUN									
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	--	--	--	--	--	--	--	--	--
AUG									
24...	170	58	10	1.6	.1	.5	190	0	5.3
SEP									
21...	--	--	--	--	--	--	--	--	--

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT									
14...	--	--	--	--	--	--	.01	.00	.00
DEC									
22...	.9	.1	7.1	177	180	1.48	.16	.00	.00
JAN									
19...	--	--	--	--	--	--	.16	.00	.00
FEB									
23...	--	--	--	--	--	--	.17	.00	.00
MAR									
24...	1.0	.1	6.7	177	176	1.43	.13	.00	.00
APR									
21...	--	--	--	--	--	--	.12	.00	.01
MAY									
18...	1.0	.1	6.3	165	163	1.47	.13	.00	.00
JUN									
23...	--	--	--	--	--	--	.11	.01	.02
JUL									
20...	--	--	--	--	--	--	.10	.01	.01
AUG									
24...	1.2	.1	6.8	168	169	1.77	.13	.00	.02
SEP									
21...	--	--	--	--	--	--	.09	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
MAY							
18...	1105	1	0	10	0	<10	30
AUG							
24...	1700	1	0	10	10	10	170

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)
MAY							
18...	100	0	.0	0	<10	10	.00
AUG							
24...	<100	0	.0	0	<10	20	.00

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT									
14...	1130	<2.2	<.4	2.3	<.4	2.0	<.4	.08	.30

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
OCT												
14...	1130	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.0

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)
OCT												
14...	.00	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT												
14...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JUN 1,77		AUG 24,77	
TIME	1105		1700	
TOTAL CELLS/ML	41		150	
DIVERSITY: DIVISION	0.0		0.8	
.CLASS	0.0		0.8	
..ORDER	0.0		0.8	
...FAMILY	1.8		1.0	
....GENUS	1.8		1.0	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	6	14	--	-
...CYMBELLACEAE				
....CYMBELLA	6	14	7	4
...NAVICULACEAE				
....NAVICULA	12#	29	24#	16
...NITZSCHIACEAE				
....NITZSCHIA	17#	43	3	2
CYANOPHYTA (BLUE-GREEN ALGE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	--	-	120#	78

NOTE: # - DOMINANT ORGANISM EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.0	7.5	6.0	6.0	5.0	6.0	5.0	6.0	5.0	5.5	4.5
2	7.5	7.0	7.5	6.0	6.5	5.5	6.0	6.0	6.0	5.0	5.5	4.5
3	8.0	6.5	7.5	6.0	6.0	5.5	6.0	5.5	6.0	5.0	5.5	4.5
4	8.0	6.0	7.5	6.0	6.0	5.5	6.0	5.0	6.0	5.0	6.0	4.5
5	8.0	6.0	7.5	6.0	6.0	5.5	---	---	6.5	5.0	6.5	5.5
6	8.0	6.5	7.5	6.0	6.0	5.0	---	---	6.0	5.0	7.0	5.0
7	8.0	6.0	7.5	6.0	6.0	5.0	---	---	6.5	5.0	6.5	5.5
8	8.0	6.0	7.5	6.0	6.0	5.5	---	---	6.0	5.0	7.0	5.5
9	8.5	6.5	7.0	6.0	6.0	5.0	---	---	6.5	5.5	7.0	5.0
10	8.0	6.5	7.0	6.0	6.0	5.0	---	---	6.5	5.0	6.0	4.5
11	7.5	6.5	7.0	6.0	6.0	5.0	---	---	6.5	5.0	6.5	4.5
12	7.5	6.0	6.5	5.5	6.0	5.5	---	---	6.5	5.0	6.5	5.0
13	7.5	6.0	6.5	6.0	6.0	5.5	---	---	7.0	5.5	6.0	4.5
14	8.0	6.5	6.0	5.5	6.0	5.0	---	---	7.0	5.5	6.0	4.5
15	8.0	6.5	6.5	5.5	6.0	5.0	---	---	7.0	5.0	6.0	4.5
16	8.0	6.5	7.0	6.0	6.0	5.0	---	---	7.0	5.5	0.0	5.0
17	8.0	6.5	7.0	6.0	6.0	5.0	---	---	7.0	5.5	6.0	5.0
18	7.0	5.5	7.0	6.0	6.0	5.0	---	---	7.0	5.0	6.0	4.5
19	7.0	5.5	7.0	6.0	6.0	5.0	---	---	7.0	5.0	6.5	4.5
20	7.5	6.0	7.0	6.0	6.0	5.0	6.5	5.5	7.0	5.5	7.0	5.0
21	7.5	6.0	7.0	6.0	6.0	5.0	6.5	6.0	7.0	5.5	7.5	5.0
22	7.5	6.5	0.0	6.0	6.0	5.0	6.5	6.0	6.0	5.0	8.0	5.5
23	7.5	6.0	6.0	5.5	6.0	5.5	6.0	5.5	6.0	4.5	7.5	5.5
24	7.5	6.0	6.5	5.5	5.5	4.5	6.0	5.0	6.5	5.0	6.5	5.0
25	7.0	6.0	6.0	5.5	6.0	4.5	6.0	5.0	6.5	5.0	6.5	5.0
26	7.0	6.0	5.5	5.0	6.5	5.5	6.0	4.5	6.5	5.0	7.0	4.5
27	6.5	5.5	5.0	5.0	6.0	5.0	6.0	5.0	7.0	5.0	7.5	4.5
28	6.5	5.5	5.5	5.0	6.0	5.0	6.0	5.0	6.0	5.0	5.5	4.5
29	7.0	6.0	---	---	6.0	5.5	6.0	5.0	---	---	5.5	4.5
30	7.0	6.0	6.0	5.0	6.0	5.0	6.0	5.0	---	---	6.5	4.5
31	7.0	6.0	---	---	6.0	5.0	6.5	5.0	---	---	7.5	5.0
MONTH	8.5	5.5	7.5	5.0	6.5	4.5	6.5	4.5	7.0	4.5	8.0	4.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	5.5	8.5	6.5	9.5	7.0	9.5	8.0	9.5	8.0	10.0	8.0
2	7.0	5.0	9.5	6.5	9.0	7.0	10.5	8.0	10.0	8.0	10.0	8.0
3	7.5	5.0	9.0	6.5	9.0	6.5	10.0	8.0	9.5	8.0	10.0	8.5
4	8.5	6.0	9.5	6.0	9.0	6.5	10.0	8.0	10.0	8.0	10.0	8.0
5	8.5	5.0	8.0	6.5	9.0	7.5	10.0	7.5	9.5	8.0	10.0	8.5
6	8.5	5.5	7.0	6.5	8.5	7.5	10.0	7.5	9.0	8.0	10.0	8.5
7	8.5	6.0	7.5	6.5	8.5	7.5	10.0	7.5	10.0	8.0	10.0	8.5
8	9.0	6.0	7.5	6.5	8.5	7.5	10.0	8.0	10.0	8.0	10.0	8.0
9	7.5	6.0	7.0	6.0	8.5	7.0	9.5	7.5	10.0	7.5	10.0	8.0
10	8.0	6.0	7.0	6.5	9.0	7.5	9.5	7.5	10.0	8.0	10.0	8.0
11	8.5	6.0	7.5	5.5	9.5	7.0	9.5	7.5	9.5	8.0	9.5	8.5
12	8.5	5.5	9.0	5.5	9.0	7.0	9.5	7.5	10.0	8.5	9.5	8.0
13	8.0	6.0	9.0	6.0	9.5	7.0	9.5	7.5	9.5	8.0	9.0	8.0
14	8.5	6.0	8.0	6.5	9.5	7.0	9.5	7.5	9.5	8.5	9.0	8.5
15	9.0	6.0	9.0	5.5	9.5	7.0	9.0	7.5	10.0	8.5	9.5	8.0
16	9.5	6.5	6.0	5.0	10.0	7.0	9.5	8.0	9.0	8.5	9.0	7.5
17	9.5	6.5	6.0	5.0	9.5	7.0	9.5	8.0	9.0	8.5	9.0	7.0
18	8.0	6.0	7.0	5.5	9.5	7.0	10.0	8.0	9.0	8.5	9.0	7.0
19	8.5	5.5	8.5	5.5	9.5	7.5	9.5	8.0	10.0	8.5	9.5	8.0
20	9.5	6.0	9.0	6.0	9.0	7.5	9.5	8.0	9.5	8.5	9.0	7.5
21	9.0	6.0	8.5	6.0	9.5	8.0	9.5	8.0	10.0	8.5	9.0	7.0
22	9.5	6.5	8.5	6.5	10.0	7.5	9.0	8.5	10.0	8.5	8.5	7.0
23	10.0	6.5	7.0	6.5	9.5	7.5	9.0	8.0	10.0	8.5	8.5	6.5
24	10.5	7.0	7.0	6.0	10.0	8.0	10.0	8.5	10.0	8.5	9.0	7.0
25	9.5	7.0	8.5	6.0	9.5	8.0	10.0	8.0	10.0	8.5	8.5	7.5
26	11.0	7.0	8.5	5.5	10.0	8.0	10.0	8.0	10.0	8.5	9.0	7.5
27	9.5	7.0	8.5	6.5	10.0	8.0	10.0	8.0	9.5	8.0	9.5	7.5
28	9.5	7.0	8.5	6.5	10.0	8.0	10.0	8.0	10.0	8.0	9.5	8.0
29	9.5	6.5	8.5	6.0	9.5	8.0	10.0	8.0	10.0	8.0	9.5	8.0
30	9.0	6.5	10.0	6.0	9.5	8.0	10.0	8.0	10.0	8.0	8.5	7.5
31	---	---	10.0	7.0	---	---	10.0	8.0	10.0	8.0	---	---
MONTH	11.0	5.0	10.0	5.0	10.0	6.5	10.5	7.5	10.0	7.5	10.0	6.5
YEAR	11.0	4.5										

10245800 NEWARK VALLEY TRIBUTARY NEAR HAMILTON, NV

LOCATION.--Lat 39°25'00", long 115°37'52", in S¼NE¼ sec.23, T.18 N., R.56 E., White Pine County, Hydrologic Unit 16060006, on left bank above culvert on U.S. Highway 50, 3.5 mi (5.6 km) east of Pancake Summit, 14 mi (23 km) northwest of Hamilton, and 19 mi (31 km) east of Eureka.

DRAINAGE AREA.--157 mi² (407 km²).

PERIOD OF RECORD.--Water year 1962 (annual maximum), August 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 6,120 ft (1,865 m), from topographic map. October 1961 to August 1962, crest-stage gage at same site and datum.

REMARKS.--Records of flow poor.

AVERAGE DISCHARGE.--15 years, 0.120 ft³/s (0.0034 m³/s), 87 acre-ft/yr (107,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 238 ft³/s (6.74 m³/s) July 31, 1968, gage height, 4.55 ft (1.387 m), by slope-area measurement of peak flow; no flow most of the time

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft³/s (2.21 m³/s) at 1330 hours, Aug. 18, gage height, 2.78 ft (0.847 m), no other peak above base of 10 ft³/s (0.28 m³/s); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.1
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	1.2	.20
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	19	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	20.50	1.30
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.66	.043
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	19	1.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.2	41	2.6

CAL YR 1976 TOTAL 5.03 MEAN .014 MAX 5.0 MIN .00 AC-FT 10
WTR YR 1977 TOTAL 21.90 MEAN .060 MAX 19 MIN .00 AC-FT 43

10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV

LOCATION.--Lat 38°50'50", long 115°22'00", in NE¼NW¼ sec.3, T.11 N., R.59 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on right bank 0.2 mi (0.3 km) upstream from reservoir diversion, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14 km) northeast of Currant.

DRAINAGE AREA.--12.9 mi² (33.4 km²).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter months,which are fair. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--13 years, 2.71 ft³/s (0.0767 m³/s), 1,960 acre-ft/yr (2.42 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366 ft³/s (10.4 m³/s) Dec. 6, 1966, gage height, 4.1 ft (1.25 m), from floodmarks, from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft³/s (0.623 m³/s) June 1, gage height, 1.77 ft (0.539 m); minimum, 0.04 ft³/s (0.001 m³/s) Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.82	.46	.25	.24	.17	.13	.67	17	2.0	.20	[illegible]
2	4.3	.82	.46	.29	.24	.16	.12	.66	19	1.9	.24	[illegible]
3	2.9	.82	.53	.15	.24	.18	.10	.63	17	1.7	.24	[illegible]
4	3.4	.82	.53	.19	.24	.20	.13	.59	16	1.6	.24	[illegible]
5	3.6	.82	.53	.13	.24	.18	.14	.82	15	1.5	.33	[illegible]
6	3.2	.82	.60	.15	.24	.19	.81	.68	16	1.6	.56	.61
7	2.6	.82	.58	.18	.24	.17	.54	.61	16	1.3	.24	.52
8	2.5	.82	.53	.20	.24	.11	.46	.63	15	1.2	.20	.48
9	2.2	.82	.53	.21	.24	.09	.48	.63	15	1.1	.36	.48
10	2.1	.91	.60	.24	.24	.10	.53	.69	14	1.0	.29	.48
11	2.0	.91	.60	.24	.24	.10	.50	.67	12	1.0	.29	.46
12	1.9	.91	.60	.29	.24	.17	.50	.67	10	.98	.36	.46
13	1.7	.91	.35	.29	.24	.13	.54	.67	8.6	.93	.36	.40
14	1.5	.99	.35	.26	.20	.12	.48	.68	8.7	.90	.28	.40
15	1.5	.91	.35	.26	.20	.25	.53	.79	7.8	.84	.29	.40
16	1.4	.82	.30	.24	.20	.26	.46	1.0	7.1	.81	.29	.40
17	1.3	.74	.30	.24	.21	.25	.49	1.1	6.5	.79	.40	.72
18	1.2	.74	.30	.24	.20	.15	.56	1.4	5.5	.71	2.0	.40
19	1.2	.74	.30	.24	.20	.14	.91	1.6	5.1	.68	2.1	.40
20	1.1	.74	.30	.24	.20	.15	.44	1.5	5.0	.62	2.0	.40
21	1.1	.74	.33	.26	.20	.13	.61	1.6	4.8	.62	1.0	.47
22	.98	.74	.40	.24	.19	.13	.50	1.7	4.0	.40	1.0	.40
23	.98	.74	.56	.26	.18	.13	.73	2.5	4.1	.40	1.1	.72
24	.95	.67	.30	.29	.18	.14	.56	3.0	3.4	.60	2.0	.40
25	.91	.67	.30	.29	.18	.14	.56	4.2	3.3	.40	2.0	.40
26	.91	.50	.35	.24	.17	.16	.37	7.8	3.8	.90	2.0	.40
27	.91	.45	.27	.26	.17	.16	.48	7.4	3.1	.90	2.0	.57
28	.91	.56	.28	.24	.19	.19	.61	7.0	2.6	.90	2.0	.56
29	.91	.53	.25	.24	---	.15	.56	8.5	2.2	.70	1.6	.57
30	.82	.60	.30	.24	---	.15	.81	8.7	2.2	.56	1.6	.48
31	.82	---	.23	.24	---	.14	---	10	---	.70	1.0	---
TOTAL	53.16	22.63	10.53	7.19	5.94	5.27	11.96	81.11	269.7	28.21	40.11	21.56
MEAN	1.71	.75	.34	.23	.21	.17	.40	2.62	8.99	.91	1.29	.72
MAX	4.3	.99	.60	.29	.24	.26	.91	10	19	2.0	2.1	[illegible]
MIN	.82	.45	.23	.13	.17	.09	.10	.59	2.2	.40	.20	.40
AC-FT	105	45	21	14	12	10	24	161	535	56	80	43

CAL YR 1976 TOTAL 581.26 MEAN 1.59 MAX 8.6 MIN .02 AC-FT 1150
WTR YR 1977 TOTAL 961.89 MEAN [illegible] MAX [illegible] MIN .04 AC-FT [illegible]

10247860 PENOYER VALLEY TRIBUTARY NEAR TEMPIUTE, NV

LOCATION.--Lat 37°35'07", long 115°40'48", in SE¼NE¼ sec.21, T.4 S., R.56 E., Lincoln County, Hydrologic Unit 16060014, on left bank upstream side of culvert on State Highway 25, 1 mi (1.6 km) northwest of Coyote Summit, and 5.3 mi (8.5 km) south of Tempiute.

DRAINAGE AREA.--1.48 mi^2 (3.83 km^2).

PERIOD OF RECORD.--Water years 1964-65 (annual maximum), October 1965 to September 1977, discontinued as continuous-record station; converted to a crest-stage partial record station.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 5,480 ft (1,670 m), approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on right bank) and datum.

REMARKS.--Records poor. No regulation above station.

AVERAGE DISCHARGE.--12 years, 0.002 ft^3/s (0.0001 m^3/s), 1.4 acre-ft/yr (1,730 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft^3/s (3.68 m^3/s) Aug. 6, 1968, gage height, 6.36 ft (1.938 m), from floodmarks, from indirect measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.50 ft^3/s (0.014 m^3/s) Oct. 2, gage height unknown; no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MEAN	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

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CAL YR 1976  TOTAL 0.05   MEAN .000   MAX .03   MIN  .00   AC-FT .1
WTR YR 1977  TOTAL 0.02   MEAN .000   MAX .02   MIN  .00   AC-FT .04
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10248510 ELDORADO VALLEY TRIBUTARY NEAR NELSON, NV

LOCATION.--Lat 35°48'35", long 114°53'05", in N¼SE¼SE¼ sec.36, T.24 S., R.63 E., Clark County, Hydrologic Unit 16060015, on right bank upstream side of culvert on State Highway 60 and 8 mi (13 km) northwest of Nelson.

DRAINAGE AREA.--1.41 mi² (2.59 km²).

PERIOD OF RECORD.--Water years 1964-65 (annual maximum), October 1965 to September 1977, discontinued as a continuous-record station; converted to a crest-stage partial record station.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 2,470 ft (753 m), approximately (from topographic map). October 1963 to September 1965, crest-stage gage at same site (on left bank) and datum.

REMARKS.--Records good. No regulation above station.

AVERAGE DISCHARGE.--12 years, 0.008 ft³/s (0.0002 m³/s), 5.8 acre-ft/yr (7,150 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 530 ft³/s (15.0 m³/s) Aug. 4, 1970, gage height of pond, 9.00 ft (2.743 m); no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft³/s (2.83 m³/s) Oct. 1, gage height of pond, 4.93 ft (1.503 m); no flow most of the time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	4.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MEAN	.14	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	4.2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	8.3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1976 TOTAL 4.20 MEAN .011 MAX 4.2 MIN .00 AC-FT 8.3
WTR YR 1977 TOTAL 4.20 MEAN .012 MAX 4.2 MIN .00 AC-FT 8.3

10249280 KINGSTON CREEK BELOW COUGAR CANYON, NEAR AUSTIN, NV

LOCATION.--Lat 39°12'45", long 117°06'45", in NW¼ sec.35, T.16 N., R.43 E., Lander County, Hydrologic Unit 16060004, in Toiyabe National Forest, on left bank 1.1 mi (1.8 km) downstream from Cougar Canyon and 19 mi (31 km) southeast of Austin.

DRAINAGE AREA.--23.4 mi^2 (60.6 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft (1,975 m), from topographic map.

REMARKS.--Records good. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft (234,000 m^3) about 4 mi (6 km) upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--11 years, 8.18 ft^3/s (0.232 m^3/s), 5,930 acre-ft/yr (7.31 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s (4.25 m^3/s) May 18, 1973, gage height, 3.58 ft (1.091 m), on basis of indirect measurement of peak flow; minimum, 1.4 ft^3/s (0.040 m^3/s) Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.3 ft^3/s (0.21 m^3/s) June 3, gage height, 1.91 ft (0.582 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Mar. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	4.9	3.5	3.7	3.6	3.3	3.8	4.6	6.5	6.9	5.7	4.8
2	5.3	4.9	3.6	3.7	3.5	3.4	3.5	4.7	6.7	6.9	5.6	4.8
3	5.2	4.9	3.8	3.4	3.6	3.4	3.8	4.8	7.0	6.9	5.3	4.7
4	5.0	4.8	3.9	3.5	3.7	3.5	3.9	4.8	5.9	6.7	5.3	4.7
5	4.9	4.6	3.7	3.3	3.7	3.5	3.8	4.7	5.9	6.6	5.3	4.7
6	4.9	4.7	3.8	3.5	3.7	3.5	3.9	4.7	6.1	6.4	5.6	4.8
7	4.9	4.6	3.8	3.6	3.7	3.5	3.9	4.8	6.1	6.4	5.4	4.9
8	4.9	4.5	4.1	3.8	3.7	3.4	4.0	4.8	6.2	6.3	5.5	4.9
9	4.9	4.5	4.3	3.7	3.7	3.4	4.1	5.1	6.4	6.2	5.5	4.8
10	5.1	4.5	4.0	3.7	3.7	3.1	4.2	4.8	6.5	6.1	5.6	4.6
11	5.0	4.5	4.0	3.6	3.7	3.1	4.2	4.7	6.5	6.0	5.6	4.6
12	5.0	4.4	4.0	3.6	3.8	3.4	4.3	4.6	6.4	6.0	5.6	4.4
13	5.0	4.4	4.2	3.5	3.8	3.5	4.4	4.6	6.4	6.0	5.6	4.4
14	4.9	4.4	4.1	3.5	3.9	3.5	4.5	4.4	6.4	5.9	5.4	4.3
15	4.8	4.5	4.1	3.6	3.9	3.6	4.3	4.4	6.3	5.9	5.3	4.3
16	4.9	4.4	4.1	3.7	3.8	3.7	4.3	4.4	6.2	5.9	5.5	4.4
17	4.9	4.6	4.2	3.9	3.9	3.7	4.3	4.4	6.5	5.9	6.1	4.3
18	4.9	4.5	4.1	3.8	3.8	3.6	4.4	4.4	6.4	5.9	6.1	4.3
19	4.9	4.5	4.0	3.9	3.9	3.7	4.4	4.4	6.6	5.7	5.8	4.3
20	5.0	4.5	3.9	3.9	3.8	3.8	4.4	4.4	6.7	5.7	5.6	4.3
21	4.9	4.4	3.9	3.9	3.8	3.9	4.4	4.5	6.6	6.0	5.[illegible]	4.3
22	4.8	4.4	3.8	3.9	3.5	3.9	4.3	4.7	6.6	6.0	5.5	4.2
23	4.8	4.3	3.8	4.0	3.3	3.8	4.4	4.8	6.7	6.1	5.3	4.1
24	4.8	4.3	3.8	3.9	3.3	3.8	4.4	4.8	6.6	5.9	5.3	4.1
25	4.8	4.2	4.0	3.7	3.3	3.8	4.4	5.1	6.6	6.0	5.3	4.1
26	5.1	4.0	4.0	3.7	3.3	3.7	4.3	5.4	6.6	5.8	5.3	4.1
27	5.1	3.6	3.9	3.7	3.3	3.6	4.5	5.6	6.6	6.0	5.3	4.1
28	5.1	3.3	3.7	3.9	3.3	3.4	4.7	5.9	6.6	5.9	5.3	4.0
29	5.0	3.5	3.8	3.9	---	3.4	4.7	6.1	6.7	6.0	5.0	4.1
30	4.9	3.5	3.8	3.8	---	3.6	4.8	6.2	6.8	5.8	5.1	4.0
31	4.8	---	3.7	3.9	---	3.8	---	6.2	---	5.8	5.0	---
TOTAL	153.8	131.1	121.4	115.2	102.0	110.3	127.3	151.8	194.1	189.6	169.6	132.4
MEAN	4.96	4.37	3.92	3.72	3.64	3.56	4.24	4.90	6.47	6.12	5.47	4.41
MAX	5.3	4.9	4.3	4.0	3.9	3.9	4.8	6.2	7.0	6.9	6.1	4.9
MIN	4.8	3.3	3.5	3.3	3.3	3.1	3.5	4.4	5.9	5.7	5.0	4.0
AC-FT	305	260	241	228	202	219	252	301	385	376	336	263

CAL YR 1976 TOTAL 2066.5 MEAN 5.65 MAX 8.6 MIN 3.3 AC-FT 4100
WTR YR 1977 TOTAL 1698.6 MEAN 4.65 MAX 7.0 MIN 3.1 AC-FT 3370

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV
(Hydrologic bench-mark station)

LOCATION.--Lat 38°53'15", long 117°14'40", in SW¼NE¼ sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, in Toiyabe National Forest, on right bank 600 ft (180 m) upstream from diversion, 3 mi (5 km) west of State Highway 8A, and 15 mi (24 km) northwest of Round Mountain.

DRAINAGE AREA.--20 mi^2 (52 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), August 1965 to current year.

GAGE.--Water-stage recorder with thermograph attachment. Altitude of gage is 6,400 ft (1,951 m), from topographic map.

REMARKS.--Records good. No diversions above station.

AVERAGE DISCHARGE.--12 years, 5.90 ft^3/s (0.167 m^3/s), 4,270 acre-ft/yr (5.26 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 128 ft^3/s (3.62 m^3/s) June 3, 1975, gage height, 3.69 ft (1.125 m); minimum, 0.11 ft^3/s (0.003 m^3/s) Sept. 4, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 66 ft^3/s (1.87 m^3/s) June 10 (0100 hrs) gage height 3.14 ft (0.957 m), no other peak above base of 20 ft^3/s (0.57 m^3/s) minimum 1.2 ft^3/s (0.034 m^3/s) Jan. 4, Feb. 24, Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.0	2.2	2.0	1.7	1.7	2.2	5.7	23	11	2.6	2.1
2	5.6	3.0	2.5	2.0	1.8	1.7	2.1	5.4	26	11	2.5	2.1
3	5.5	2.8	2.5	1.6	2.1	1.8	1.9	5.1	26	9.9	2.6	2.0
4	5.4	2.8	2.5	1.7	1.9	1.9	2.3	5.1	25	9.1	2.9	2.0
5	5.0	3.0	2.6	1.7	1.9	1.7	4.4	5.0	23	8.6	2.9	1.9
6	4.7	2.8	2.7	1.8	1.7	1.7	6.8	5.0	22	8.0	2.7	1.8
7	4.4	2.8	2.7	1.8	1.6	1.7	7.9	4.8	20	7.6	2.5	1.8
8	4.2	2.7	2.7	1.8	1.6	1.8	8.3	5.0	21	7.2	2.4	1.8
9	4.0	2.7	2.6	1.7	1.6	1.9	8.2	6.4	41	6.8	2.3	1.8
10	3.8	2.7	2.6	1.7	1.7	2.0	7.4	7.7	61	6.4	2.2	1.7
11	3.7	2.8	2.8	1.7	1.7	1.9	6.9	8.8	52	6.1	2.1	2.1
12	3.6	2.8	2.7	1.7	1.7	2.1	6.6	8.1	45	5.8	2.1	2.2
13	3.5	2.7	2.6	1.7	1.7	2.0	6.5	7.8	39	5.6	2.4	2.1
14	3.5	3.0	2.6	1.6	1.7	1.9	6.2	9.5	33	5.4	2.3	2.0
15	3.4	2.8	2.6	1.6	1.7	1.9	5.8	14	28	5.1	2.0	1.9
16	3.4	3.0	2.6	1.6	1.8	2.0	5.8	14	24	4.8	2.0	1.9
17	3.5	3.1	2.7	1.6	1.8	2.0	6.1	12	21	4.7	2.9	2.1
18	3.5	3.0	2.7	1.6	1.8	1.8	6.2	11	18	4.5	3.5	2.1
19	3.3	3.0	2.6	1.6	1.8	2.0	6.0	10	16	4.3	3.1	1.9
20	3.3	2.7	2.2	1.7	1.8	1.9	5.7	9.5	15	4.3	2.8	1.9
21	3.2	2.7	2.1	1.8	1.9	2.0	5.5	9.8	14	4.4	4.2	1.9
22	3.2	2.7	1.9	1.8	1.9	2.0	5.5	11	15	4.2	3.7	1.9
23	3.3	2.7	1.9	1.9	1.6	2.1	5.3	14	13	4.2	3.1	2.0
24	3.3	2.7	2.1	1.9	1.6	2.1	5.1	20	13	4.0	2.8	2.0
25	3.2	2.6	2.2	1.9	1.5	2.1	5.3	22	12	3.8	2.7	1.9
26	3.2	2.4	2.2	1.8	1.5	2.0	5.5	20	12	3.5	2.6	1.9
27	3.0	2.4	2.1	1.8	1.6	2.0	5.7	20	11	3.3	2.6	1.9
28	3.0	2.4	2.0	1.8	1.7	1.8	5.7	19	11	3.1	2.4	1.9
29	3.1	2.2	2.0	1.9	---	1.8	5.7	19	10	3.0	2.4	1.8
30	3.0	2.2	1.9	2.0	---	2.0	5.7	18	10	2.8	2.2	1.9
31	3.0	---	1.9	2.0	---	2.0	---	19	---	2.7	2.2	---
TOTAL	115.2	82.2	74.0	54.8	48.4	59.3	168.3	351.7	700	175.2	81.7	58.3
MEAN	3.72	2.74	2.39	1.77	1.73	1.91	5.61	11.3	23.3	5.65	2.64	1.94
MAX	5.6	3.1	2.8	2.0	2.1	2.1	8.3	22	61	11	4.2	2.2
MIN	3.0	2.2	1.9	1.6	1.5	1.7	1.9	4.8	10	2.7	2.0	1.7
AC-FT	228	163	147	109	96	118	334	698	1390	348	162	116

CAL YR 1976 TOTAL 1699.7 MEAN 4.64 MAX 23 MIN 1.3 AC-FT 3370
WTR YR 1977 TOTAL 1969.1 MEAN 5.39 MAX 61 MIN 1.5 AC-FT 3910

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1965 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: October 1967 and March 1968 to current year, monthly.
BIOLOGICAL DATA: July 1970 to July 1973, once- or twice-yearly (24-hr studies); May 1975 to current year, twice-yearly.
MICROBIOLOGICAL DATA: October 1974 to current year, monthly.
WATER TEMPERATURES: July 1965 to April 1966, monthly; May 1966 to September 1968, continuous; October 1968 to December 1969, monthly; January 1970 to current year, continuous.
SEDIMENT DATA: October 1967 to September 1975, monthly; October 1975 to current year, occasionally (at times of noticeable turbidity or high discharge).

INSTRUMENTATION.--Temperature recorder since April 1966.

REMARKS.--Temperature recorder malfunctioned from May 16 to June 21.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 158 micromhos May 8, 1975; minimum, 75 micromhos June 16, 1971.
WATER TEMPERATURES: Maximum, 17.5°C July 11, 1976; minimum, freezing point on several days in many years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,970 mg/L June 5, 1975; minimum, 0 mg/L July 26, 1973, Aug. 23, 1973.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 16.0°C July 17; minimum, freezing point on several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 14...	1405	3.6	140	--	8.0	--	25	0	2
DEC 20...	1540	2.4	137	--	.0	11.4	1	0	0
JAN 17...	1640	1.7	138	--	1.0	--	0	--	0
FEB 21...	1600	2.0	134	--	5.0	--	78	0	B1500
MAR 22...	1230	2.0	130	8.0	6.5	9.6	--	--	--
APR 19...	1600	5.8	116	--	8.0	--	54	0	1
MAY 16...	1605	13	119	8.2	6.0	9.6	0	0	2
JUN 21...	1515	15	102	--	12.0	--	120	1	27
JUL 19...	1435	4.1	114	8.0	15.5	--	0	0	120
AUG 22...	1545	3.7	131	8.3	14.5	8.1	290	0	37
SEP 19...	1515	1.9	133	8.2	11.5	--	0	0	21

B: NON-IDEAL COLONY COUNT.

DATE	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 14...	--	--	--	--	--	.9	--	--	--
DEC 20...	54	19	1.7	6.2	.4	.7	65	0	8.6
JAN 17...	--	--	--	--	--	--	--	--	--
FEB 21...	--	--	--	--	--	--	--	--	--
MAR 22...	51	18	1.5	5.9	.4	.8	66	0	8.5
APR 19...	--	--	--	--	--	--	--	--	--
MAY 16...	49	17	1.5	5.6	.3	.9	61	0	7.0
JUN 21...	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--
AUG 22...	54	19	1.7	5.4	.3	.9	70	0	5.7
SEP 19...	--	--	--	--	--	--	--	--	--

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 14...	--	--	--	--	--	--	.00	.00	.00
DEC 20...	1.6	.1	21	94	91	.61	.06	.00	.00
JAN 17...	--	--	--	--	--	--	.07	.00	.00
FEB 21...	--	--	--	--	--	--	.02	.00	.02
MAR 22...	1.9	.1	18	91	87	.49	.00	.00	.00
APR 19...	--	--	--	--	--	--	.01	.00	.03
MAY 16...	1.9	.1	18	77	82	2.83	.06	.00	.00
JUN 21...	--	--	--	--	--	--	.04	.01	.03
JUL 19...	--	--	--	--	--	--	.00	.01	.01
AUG 22...	1.8	.1	20	88	89	.88	.01	.00	.03
SEP 19...	--	--	--	--	--	--	.01	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
MAY 16...	1605	3	0	20	0	<10	170
AUG 22...	1545	62	200	10	10	<10	300

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)
MAY 16...	300	20	.0	0	<10	20	.00
AUG 22...	<100	0	.0	0	<10	20	.00

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
OCT 14...	1405	6.6	<.4	1.7	<.4	1.3	<.4	.07

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLY-CHLORINATED NAPHTHALENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)
OCT 14...	1405	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.0

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
OCT 14...	.00	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 14...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY 16...	1605	13	11	.40

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	MAY 16,77	AUG 22,77
TIME	1605	1615
TOTAL CELLS/ML	340	3400
DIVERSITY: DIVISION	0.9	0.3
.CLASS	0.9	0.3
..ORDER	0.9	0.3
...FAMILY	1.4	0.4
....GENUS	1.4	0.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	18	5	--	-
....COCCONEIS	*	0	59	2
....RHOICOSPHENIA	*	0	*	0
...CYMBELLACEAE				
....AMPHORA	--	-	*	0
....CYMBELLA	12	4	42	1
...DIATOMACEAE				
....DIATOMA	*	0	25	1
...FRAGILARIACEAE				
....FRAGILARIA	12	4	--	-
....HANNAEA	*	0	--	-
....SYNEDRA	*	0	*	0
...GOMPHONEMATACEAE				
....GOMPHONEMA	*	0	--	-
...NAVICULACEAE				
....NAVICULA	*	0	25	1
...NITZSCHIACEAE				
....NITZSCHIA	67#	20	--	-
...SURIRELLACEAE				
....SURIRELLA	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.CYANOPHYCEAE				
..HORMOGONALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	230#	68	3300#	95

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.5	10.0	4.5	4.0	1.0	1.0	0.0	0.0	1.5	1.5	2.5	1.5
2	10.0	9.5	5.0	4.0	1.5	1.0	0.5	0.0	1.5	1.5	1.5	1.5
3	10.0	9.5	5.0	4.5	1.5	1.5	0.5	0.5	1.5	1.5	1.5	1.5
4	9.0	8.0	5.0	4.5	2.0	1.5	0.5	0.5	1.5	1.5	1.5	1.5
5	9.5	8.0	5.0	4.5	1.0	1.0	0.5	0.5	1.5	1.5	2.0	1.5
6	10.0	9.0	5.0	4.5	1.0	0.0	0.5	0.5	2.0	1.5	3.0	2.0
7	9.5	8.5	5.0	4.5	0.0	0.0	1.0	1.0	2.0	2.0	4.5	3.0
8	10.0	8.5	5.0	4.0	0.5	0.0	1.0	1.0	2.5	2.0	5.0	3.5
9	10.0	9.0	4.5	4.0	0.5	0.5	1.0	1.0	3.0	3.0	4.5	2.5
10	10.5	9.0	4.5	4.0	0.5	0.0	1.0	1.0	3.0	2.5	2.5	2.5
11	10.0	9.0	4.5	4.0	0.0	0.0	1.0	1.0	3.0	2.5	2.5	2.5
12	9.5	8.0	4.5	4.0	0.5	0.0	1.0	1.0	3.0	2.5	4.5	2.5
13	9.0	8.0	4.0	3.5	0.5	0.5	1.0	1.0	3.0	2.5	3.5	2.5
14	9.0	8.0	4.0	4.0	0.5	0.5	1.0	1.0	3.0	3.0	2.5	2.5
15	8.5	7.5	4.0	3.0	0.5	0.5	1.0	1.0	3.0	2.5	3.0	3.0
16	8.5	7.5	4.0	3.5	0.5	0.0	1.0	1.0	3.5	3.0	4.0	2.5
17	9.5	7.5	4.0	4.0	0.0	0.0	1.0	1.0	4.0	3.5	3.5	2.5
18	8.0	6.5	4.5	4.0	0.0	0.0	1.0	1.0	4.5	3.5	4.0	3.0
19	7.0	6.0	4.5	4.0	0.0	0.0	1.0	1.0	4.5	3.5	5.0	3.0
20	7.0	6.5	4.0	3.0	0.0	0.0	1.5	1.0	4.5	3.5	5.5	3.5
21	7.0	6.0	3.5	3.0	0.0	0.0	1.5	1.5	5.0	4.0	6.5	3.5
22	7.0	6.0	3.5	3.5	0.0	0.0	2.0	2.0	4.0	3.0	6.5	4.0
23	7.0	6.0	3.5	3.0	0.0	0.0	2.0	2.0	3.0	1.5	6.0	4.0
24	7.0	5.5	3.0	2.0	0.0	0.0	2.0	1.0	1.5	1.0	4.5	3.5
25	6.5	6.0	2.5	2.5	0.0	0.0	1.0	0.5	1.5	1.0	5.0	3.0
26	6.0	6.0	2.5	1.0	0.0	0.0	0.5	0.5	1.5	1.5	5.5	2.5
27	5.5	4.0	1.0	1.0	0.0	0.0	0.5	0.5	2.0	1.5	7.0	3.5
28	4.5	4.0	1.0	1.0	0.0	0.0	0.5	0.5	2.5	2.0	4.0	2.5
29	5.5	4.5	1.0	1.0	0.0	0.0	0.5	0.5	---	---	2.5	2.5
30	5.5	5.0	1.0	1.0	0.0	0.0	0.5	0.5	---	---	2.5	2.5
31	4.5	3.5	---	---	0.0	0.0	1.0	0.5	---	---	3.5	2.5
MONTH	10.5	3.5	5.0	1.0	2.0	0.0	2.0	0.0	5.0	1.0	7.0	1.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.5	2.5	6.0	7.0	---	---	13.0	11.0	15.5	12.5	13.5	11.5
2	4.0	2.5	9.0	6.0	---	---	12.0	10.0	14.5	13.0	14.0	11.5
3	4.5	2.5	10.0	6.5	---	---	13.0	10.0	15.0	13.0	14.0	12.5
4	7.0	3.0	9.5	5.5	---	---	12.5	10.0	14.5	13.0	14.0	12.0
5	8.0	4.0	7.5	6.0	---	---	12.0	9.0	14.0	13.0	14.0	12.5
6	8.0	4.5	5.5	5.0	---	---	13.5	10.0	14.0	13.0	14.0	12.0
7	8.5	5.5	5.5	4.5	---	---	13.5	10.0	15.0	12.5	14.5	12.5
8	8.5	6.0	6.0	5.0	---	---	13.5	10.5	15.0	12.0	14.0	12.0
9	6.5	5.5	6.0	4.5	---	---	13.5	10.5	15.0	12.5	13.5	12.0
10	7.5	4.5	7.5	4.5	---	---	13.5	10.0	15.0	12.5	14.0	12.0
11	7.5	4.5	6.0	5.5	---	---	13.5	10.5	14.5	12.5	13.5	12.5
12	8.0	4.5	6.0	5.0	---	---	14.5	11.0	15.5	13.5	12.5	11.5
13	6.5	5.0	7.0	5.0	---	---	14.5	11.0	14.5	13.5	12.5	11.5
14	8.5	5.5	8.0	5.5	---	---	14.5	11.0	15.5	13.5	12.0	11.5
15	8.5	4.5	8.5	5.5	---	---	14.5	11.5	15.5	13.0	11.5	11.0
16	9.5	6.0	---	---	---	---	15.0	11.5	14.0	13.0	---	---
17	9.5	6.5	---	---	---	---	16.0	13.5	13.5	13.5	---	---
18	8.0	5.5	---	---	---	---	15.5	12.5	13.5	13.5	---	---
19	8.0	4.5	---	---	---	---	15.0	12.5	14.0	13.0	---	---
20	8.5	4.5	---	---	---	---	14.5	13.0	15.5	13.5	---	---
21	9.0	5.5	---	---	---	---	14.5	13.0	15.0	13.5	---	---
22	8.0	6.0	---	---	13.0	9.0	14.0	13.0	14.5	13.0	---	---
23	10.0	6.0	---	---	12.0	9.5	13.0	13.0	15.0	13.0	---	---
24	10.0	6.5	---	---	12.5	10.0	13.0	12.5	14.0	13.0	---	---
25	10.5	7.5	---	---	13.5	11.0	14.5	12.0	14.0	12.0	---	---
26	9.5	7.0	---	--	12.5	10.5	14.5	12.0	13.5	11.5	---	---
27	9.5	6.5	---	---	13.5	10.5	14.5	11.5	11.5	11.0	---	---
28	9.0	6.5	---	---	13.0	11.0	15.0	12.0	13.0	11.0	---	---
29	9.5	6.5	---	---	12.5	10.0	15.0	12.0	14.0	11.5	---	---
30	8.5	7.0	---	---	13.0	10.5	15.0	12.0	13.5	11.5	---	---
31	---	---	---	---	---	---	15.0	12.0	13.0	11.0	---	---
MONTH	10.5	2.5	10.0	4.5	13.5	9.0	16.0	9.0	15.5	11.0	14.5	11.0
YEAR	16.0	0.0										

10249411 CAMPBELL CREEK TRIBUTARY NEAR EASTGATE, NV

LOCATION.--Lat 39°15'58", long 117°41'56", in SE¼NE¼ sec.9, T.16 N., R.38 E., Lander County, Hydrologic Unit 16060002, on left bank just upstream from culvert on State Highway 2, 1.5 mi (2.4 km) east of Lander County line, and 10 mi (16 km) east of Eastgate.

DRAINAGE AREA.--2.14 mi^2 (5.54 km^2).

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder with rain-gage attachment, and crest-stage gage. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Oct. 1, 1960, to Sept. 30, 1963, crest-stage gage at same site and datum.

REMARKS.--Records of flow poor.

AVERAGE DISCHARGE.--14 years, 0.052 ft^3/s (0.0015 m^3/s), 38 acre-ft/yr (46,850 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) Aug. 24, 1961, gage height, 8.2 ft (2.50 m), from floodmarks, on basis of computations of flow through culvert: no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.8 ft^3/s (0.051 m^3/s) Apr. 4, gage height, 1.43 ft (0.436 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.20	.00	.00	.00	.00	.50	.50	.00	.00	.00	.00	.00
MEAN	.006	.000	.000	.000	.000	.016	.017	.000	.000	.000	.000	.000
MAX	.10	.00	.00	.00	.00	.20	.30	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.4	.00	.00	.00	.00	1.0	1.0	.00	.00	.00	.00	.00

CAL YR 1976 TOTAL 3.60 MEAN .010 MAX .10 MIN .00 AC-FT 7.1
WTR YR 1977 TOTAL 1.20 MEAN .003 MAX .30 MIN .00 AC-FT 2.4

10249900 CHIATOVICH CREEK NEAR DYER, NV

(National stream-quality accounting network station)

LOCATION.--Lat 37°50'00", long 118°12'10", in NE¼NE¼ sec.28, T.1 S., R.34 E., Esmeralda County, Hydrologic Unit 16060010, on left bank 300 ft (90 m) downstream from Middle Creek, 5 mi (8 km) west of State Highway 3A, and 10 mi (16 km) northwest of Dyer.

DRAINAGE AREA.--37.3 mi^2 (96.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

REMARKS.--Records good. No diversions above station.

AVERAGE DISCHARGE.--17 years, 8.52 ft^3/s (0.241 m^3/s), 6,170 acre-ft/yr (7.61 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 527 ft^3/s (14.9 m^3/s) July 31, 1965, gage height, about 5.0 ft (1.52 m), on basis of slope-area measurement of peak flow; minimum, 1.0 ft^3/s (0.028 m^3/s) Feb. 18, 1961, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s (0.37 m^3/s) June 7, gage height, 1.37 ft (0.418 m), no peak above base of 20 ft^3/s (0.57 m^3/s); minimum, 2.4 ft^3/s (0.068 m^3/s) Mar. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.6	6.0	5.8	5.3	5.5	6.1	5.8	8.4	11	6.9	6.9
2	7.2	6.6	6.2	6.1	5.5	6.2	5.8	5.7	8.4	11	7.0	6.9
3	6.8	6.7	6.1	6.5	5.9	6.4	6.1	5.6	8.4	10	7.3	6.9
4	6.7	6.5	6.1	6.0	5.7	6.5	6.7	5.6	8.6	10	7.3	7.1
5	6.6	6.5	6.0	5.9	5.7	6.4	6.9	5.6	8.8	9.9	7.1	7.0
6	6.5	6.5	6.2	5.8	5.6	6.0	6.8	5.7	9.3	9.6	6.8	6.9
7	6.5	6.5	6.2	5.5	5.5	6.0	6.7	5.9	9.5	8.7	6.8	6.9
8	6.4	6.5	6.3	5.3	5.6	5.9	6.6	6.1	10	8.6	6.7	7.0
9	6.4	6.5	6.3	5.3	5.6	5.7	6.3	6.2	9.4	8.7	6.6	7.0
10	6.4	6.5	6.3	5.3	5.5	5.4	6.1	6.5	7.6	8.7	6.3	7.0
11	6.4	6.5	6.4	5.3	5.6	6.7	6.0	6.3	7.2	8.5	6.3	7.5
12	6.4	6.7	6.3	5.3	5.7	6.0	6.1	6.0	7.2	8.3	6.4	7.6
13	6.5	6.4	6.3	5.3	5.8	5.4	6.1	5.9	7.1	8.3	6.7	7.6
14	6.4	6.6	6.1	5.3	5.9	6.3	6.2	6.7	6.9	8.2	6.5	7.5
15	6.4	6.7	5.9	5.4	5.9	6.6	6.2	7.2	7.5	8.0	6.2	7.5
16	6.4	6.6	5.9	5.3	6.0	5.9	6.3	6.6	8.3	8.4	6.4	7.7
17	6.4	6.5	5.8	5.4	6.0	5.9	6.3	5.9	8.7	8.3	8.4	8.0
18	6.4	6.4	5.8	5.5	5.8	6.2	6.2	5.8	8.5	8.3	7.7	8.3
19	6.5	6.4	5.8	5.6	5.8	6.0	5.9	6.3	9.1	8.4	7.1	8.2
20	6.4	6.4	5.6	5.5	5.7	5.9	5.9	6.2	8.4	8.2	7.0	8.3
21	6.5	6.5	5.6	5.6	6.1	5.9	5.9	6.3	8.7	8.3	6.7	8.2
22	6.7	6.5	5.7	5.6	5.6	6.0	6.0	6.3	9.2	8.2	6.9	8.2
23	6.6	6.3	6.0	5.6	5.6	5.9	6.0	6.8	9.7	7.8	6.8	8.2
24	6.6	6.2	5.7	5.5	5.3	5.7	6.1	7.7	9.5	7.7	6.7	8.1
25	6.5	6.3	5.8	5.4	5.5	5.8	6.2	7.3	10	7.7	6.6	8.1
26	6.3	6.1	5.9	5.4	6.2	5.7	6.2	6.9	11	7.5	6.6	8.1
27	6.1	4.6	5.8	5.4	5.8	5.8	5.9	6.5	11	7.4	6.8	8.1
28	6.3	6.6	5.7	5.6	5.7	5.5	5.9	6.3	11	7.3	6.7	7.8
29	6.6	8.1	5.8	5.5	---	5.9	5.9	6.2	11	7.0	6.8	7.7
30	6.5	7.5	5.8	5.6	---	5.8	5.9	6.2	10	6.9	6.8	7.9
31	6.6	---	5.8	5.4	---	6.2	---	7.0	---	6.9	6.9	---
TOTAL	202.4	195.3	185.2	172.0	159.9	185.1	185.3	195.1	268.4	261.8	211.8	228.2
MEAN	6.53	6.51	5.97	5.55	5.71	5.97	6.18	6.29	8.95	8.45	6.83	7.61
MAX	7.4	8.1	6.4	6.5	6.2	6.7	6.9	7.7	11	11	8.4	8.3
MIN	6.1	4.6	5.6	5.3	5.3	5.4	5.8	5.6	6.9	6.9	6.2	6.9
AC-FT	401	387	367	341	317	367	368	387	532	519	420	453

CAL YR 1976 TOTAL 2226.7 MEAN 6.08 MAX 9.6 MIN 4.1 AC-FT 4420
WTR YR 1977 TOTAL 2450.5 MEAN 6.71 MAX 11 MIN 4.6 AC-FT 4860

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1960 to current year.
CHEMICAL ANALYSES: October 1974 to current year, monthly.
SPECIFIC CONDUCTANCES: October 1974 to March 1975, monthly; April 1975 to current year, once-daily.
BIOLOGICAL, MICROBIOLOGICAL, AND SEDIMENT DATA: January 1975 to current year, monthly.
WATER TEMPERATURES: September 1960 to March 1975, monthly; April 1975 to current year, once-daily.

REMARKS.--Daily sampling and temperature measurement are done approximately 100 ft upstream from State Highway 3A, in NW¼SW¼ sec.28, T.1 S, R.35 E. Water temperatures at daily site are as much as 4.0°C greater than those at gage (on basis of monthly data for March 1975 to September 1976); greatest differences occur during summer. Specific conductance is not significantly different at the two sites.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 82 micromhos Mar. 21, 1977; minimum, 51 micromhos July 14, 1975.
WATER TEMPERATURES: Maximum, 36.5°C July 14, 1965; minimum, freezing point on several days during winter months.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 177 mg/L Sept. 18, 1975; minimum, 13 mg/L Feb. 6, 1975, Dec. 18, 1975, Feb. 13, 1977.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 82 micromhos Mar. 21; minimum, 55 micromhos on several days in June and July.
WATER TEMPERATURES: Maximum, 21.5°C Aug. 1; minimum, freezing point on several days in December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
13...	1330	6.3	61	7.8	9.0	4	5	34	22	7.5	.9
DEC											
15...	0940	6.0	61	7.5	1.0	2	1	3	21	7.1	.7
JAN											
18...	1520	5.3	60	7.2	3.0	3	--	72	22	7.3	.8
FEB											
15...	0855	5.5	65	7.9	1.0	3	0	11	21	7.2	.7
MAR											
17...	1500	5.8	64	8.6	1.5	3	57	2	21	6.9	.8
APR											
19...	1245	5.6	68	7.9	9.0	3	2	33	23	7.8	.8
MAY											
18...	1415	6.0	63	--	9.0	3	0	96	24	8.1	.8
JUN											
16...	1310	7.9	65	--	14.5	8	0	B130	21	7.4	.7
JUL											
20...	1430	8.1	57	8.0	17.0	3	13	B100	23	7.7	.8
AUG											
18...	1430	7.9	55	7.8	15.0	4	3	200	23	8.0	.7
SEP											
21...	1430	8.5	57	8.0	10.5	3	18	240	21	7.5	.6

B: NON-IDEAL COLONY COUNT.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
13...	3.4	.3	.9	34	0	3.2	.7	.2	16	48	50
DEC											
15...	3.4	.3	.8	32	0	2.6	.8	.3	17	56	48
JAN											
18...	3.6	.3	1.0	31	0	3.8	1.0	.3	17	40	50
FEB											
15...	3.6	.3	.9	32	0	3.5	.6	.3	18	50	51
MAR											
17...	3.5	.3	.8	34	0	2.6	.7	.4	17	55	49
APR											
19...	3.8	.3	1.0	34	0	2.8	.8	.4	18	38	52
MAY											
18...	3.8	.3	1.0	33	0	--	.8	.3	17	43	--
JUN											
16...	3.5	.3	.9	30	0	5.2	.6	.2	18	53	51
JUL											
20...	3.4	.3	.8	30	0	4.0	.6	.2	16	38	48
AUG											
18...	3.3	.3	1.0	33	0	2.3	.9	.2	18	52	51
SEP											
21...	3.3	.3	.9	31	0	2.5	.8	.2	17	45	48

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT 13...	.82	.00	.00	.06	.00	.30	.00	.36	.02	.00
DEC 15...	.91	.11	.00	.00	--	.09	--	.20	.04	--
JAN 18...	.57	.11	.00	.00	.00	.15	.15	.26	.03	.01
FEB 15...	.74	.15	.00	.03	--	--	--	--	.04	--
MAR 17...	.86	.12	.00	.00	--	.30	--	.42	.05	--
APR 19...	.57	.04	.00	.01	.03	.21	.00	.26	.03	.02
MAY 18...	.70	.09	.00	.00	--	.39	--	.48	.01	--
JUN 16...	1.13	.03	.00	.04	--	.21	--	.28	.04	--
JUL 20...	.83	.04	.01	.00	.01	.27	.13	.32	.04	.01
AUG 18...	1.11	.02	.01	.03	--	.04	--	.10	.05	--
SEP 21...	1.03	.01	.00	.02	--	.10	--	.13	.09	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 13...	1330	0	0	<10	0	0	0	<50	0	<10	0	600
JAN 18...	1520	1	1	<10	0	0	0	<50	0	<10	0	470
APR 19...	1245	0	0	<10	0	<10	0	<50	0	<10	1	680
JUL 20...	1430	0	0	<10	1	0	0	<50	0	<10	0	740

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 13...	90	<100	3	20	10	.0	.0	0	1	10	10
JAN 18...	30	<100	1	20	8	.3	.0	0	0	10	8
APR 19...	70	<100	2	30	0	.0	.0	1	0	10	0
JUL 20...	100	<100	3	30	0	.1	.0	0	0	20	4

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 13,76	DEC 15,76	JAN 16,77	FEB 15,77	APR 19,77
TIME	1330	0945	1520	0855	1245
TOTAL CELLS/ML	410	21	200	200	120
DIVERSITY: DIVISION	1.5	0.9	0.0	0.0	0.0
.CLASS	1.6	0.9	0.0	0.0	0.0
..ORDER	1.6	0.9	0.0	0.0	0.0
...FAMILY	1.9	0.9	2.4	1.8	1.7
....GENUS	2.0	0.9	2.6	1.9	1.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....STAURASTRUM	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATACEAE										
....MOUGEOTIA	170#	41	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....MELOSIRA	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	*	0	75#	37	47#	24	*	0
....COCCONEIS	3	1	--	-	--	-	--	-	*	0
....RHOICOSPHENIA	3	1	--	-	4	2	5	3	*	0
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	16	8	21	11	*	0
....EPITHEMIA	--	-	--	-	--	-	--	-	*	0
...DIATOMACEAE										
....DIATOMA	10	2	--	-	12	6	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	4	2	--	-	12	10
....HANNAEA	--	-	--	-	8	4	--	-	*	0
....SYNEDRA	--	-	--	-	4	2	--	-	*	0
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	8	4	--	-	12	10
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	--	-	*	0
...NAVICULACEAE										
....DIPLONEIS	--	-	--	-	--	-	--	-	*	0
....FRUSTULIA	--	-	--	-	--	-	--	-	*	0
....NAVICULA	27	7	*	0	20	10	95#	47	49#	40
....PINNULARIA	7	2	--	-	--	-	--	-	--	-
....STAURONEIS	3	1	--	-	--	-	--	-	*	0
...NITZSCHIACEAE										
....DENTICULA	--	-	--	-	--	-	--	-	*	0
....HANTZSCHIA	7	2	--	-	--	-	--	-	--	-
....NITZSCHIA	--	-	7#	33	52#	25	32#	16	49#	40
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	17	4	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	14#	67	--	-	--	-	--	-
....OSCILLATORIA	170#	41	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
      * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	MAY 16,77		JUN 16,77		JUL 20,77		AUG 17,77	
TIME	1415		1310		1430		1430	
TOTAL CELLS/ML	61		610		380		200	
DIVERSITY: DIVISION	0.0		0.6		0.2		0.2	
.CLASS	0.0		0.6		0.2		0.2	
..ORDER	0.0		1.0		0.2		0.2	
...FAMILY	1.6		2.6		2.0		2.3	
....GENUS	1.6		3.2		2.6		2.7	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....TREUBARIA	--	-	--	-	--	-	5	3
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	*	0	--	-	--	-	--	-
...ZYGNEMATACEAE								
....MOUGEOTIA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....MELOSIRA	--	-	27	4	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	*	0	54	9	60#	16	36#	18
....COCCONEIS	--	-	54	9	30	8	31#	15
....RHOICOSPHENIA	*	0	--	-	7	2	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	13	2	15	4	10	5
....CYMBELLA	*	0	13	2	7	2	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	27	4	--	-	10	5
...FRAGILARIACEAE								
....FRAGILARIA	20#	33	27	4	--	-	--	-
....HANNAEA	*	0	20	3	--	-	--	-
....SYNEDRA	*	0	47	8	45	12	15	8
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	5	3
...MERIDIONACEAE								
....MERIDION	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....DIPLONEIS	--	-	--	-	--	-	--	-
....FRUSTULIA	*	0	--	-	--	-	--	-
....NAVICULA	20#	33	230#	37	160#	43	72#	36
....PINNULARIA	--	-	20	3	15	4	5	3
....STAURONEIS	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....DENTICULA	--	-	--	-	--	-	--	-
....HANTZSCHIA	--	-	--	-	--	-	--	-
....NITZSCHIA	20#	33	--	-	22	6	10	5
...SURIRELLACEAE								
....SURIRELLA	*	0	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	27	4	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	40	7	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	7	2	--	-
....TRACHELOMONAS	--	-	13	2	7	2	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
      * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Retrieval Date	Length of exposure Polyethylene strip (days)	Biomass (mg/m^2) Dry weight	Biomass (mg/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio
Dec 15	64	4,154	3,077	0.137	0.036	7,861

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 13...	1330	6.3	31	.53
DEC 15...	0940	6.0	18	.29
JAN 18...	1520	5.3	20	.29
FEB 15...	0855	5.5	13	.19
MAR 17...	1500	5.8	28	.44
APR 19...	1245	5.6	30	.45
MAY 18...	1415	6.0	36	.58
JUN 16...	1310	7.9	72	1.5
JUL 20...	1430	8.1	56	1.2
AUG 18...	1430	7.9	41	.87

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	---	---	64	67	67	65	65	62	---	60	63
2	62	60	---	59	61	66	62	67	61	58	---	62
3	62	61	---	62	63	66	65	64	57	58	60	---
4	62	60	---	71	63	61	65	67	61	55	60	61
5	62	60	---	74	62	64	66	65	59	55	---	62
6	62	60	---	70	63	62	---	65	59	55	61	61
7	62	60	59	64	64	62	69	65	56	57	62	61
8	62	59	59	62	65	66	68	68	57	---	63	61
9	62	60	61	63	65	68	69	64	59	---	64	62
10	62	59	62	76	67	64	65	68	63	58	59	---
11	62	60	59	70	69	73	66	65	63	62	60	61
12	62	59	---	---	65	65	67	65	63	58	60	62
13	62	60	60	66	66	62	65	65	63	60	60	---
14	62	59	60	65	73	64	68	66	63	59	60	---
15	60	62	68	62	---	62	66	---	62	59	60	60
16	60	---	62	61	65	61	66	---	55	62	60	60
17	60	60	68	64	71	61	---	67	60	55	---	60
18	60	62	60	64	63	62	70	65	---	58	65	59
19	60	60	63	66	63	70	65	69	56	---	63	60
20	61	60	63	71	65	64	66	67	55	58	---	59
21	60	60	66	63	66	82	---	65	61	---	---	59
22	60	60	---	62	71	66	---	---	55	61	---	59
23	60	59	---	64	65	77	---	67	---	---	---	59
24	60	59	62	73	69	71	---	68	---	---	---	59
25	60	59	66	65	65	71	---	68	59	---	62	59
26	60	59	70	65	---	64	66	70	56	60	---	59
27	60	59	60	64	---	68	68	68	55	59	62	---
28	60	---	65	67	62	62	---	65	55	58	61	---
29	61	---	60	69	---	61	66	68	---	---	---	---
30	60	---	66	63	---	---	65	68	57	58	62	58
31	60	---	67	---	---	63	---	65	---	---	65	---
MEAN	61	59	63	65	65	65	66	66	58	58	61	60
MAX	63	62	70	76	73	82	70	70	63	62	65	63
MIN	60	59	59	59	61	61	62	64	55	55	59	58

WTR YR 1977 MEAN 62 MAX 82 MIN 55

10249900 CHIATOVICH CREEK NEAR DYER, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	---	---	0.0	4.0	2.0	5.0	---	20.0	17.0	21.5	19.5
2	8.5	6.0	---	0.0	4.0	1.5	7.0	---	19.5	17.0	---	18.5
3	9.0	7.0	---	0.0	3.0	2.0	10.0	---	17.0	17.0	20.0	---
4	8.0	7.0	---	0.0	3.5	2.5	12.0	---	18.5	17.0	20.0	19.0
5	7.5	7.0	---	3.5	5.0	4.5	13.5	---	18.0	17.0	---	19.0
6	8.0	7.5	---	0.0	4.0	6.0	---	---	18.0	17.0	19.0	19.0
7	8.0	7.0	0.5	0.5	4.5	5.0	15.5	---	18.0	17.0	20.0	19.0
8	9.5	7.0	0.5	0.5	5.0	6.5	16.0	---	18.0	19.0	19.5	20.0
9	9.5	6.5	1.0	0.5	6.0	5.0	16.5	---	19.0	19.0	20.0	19.0
10	10.0	6.0	0.5	1.0	4.0	6.0	17.5	---	17.0	19.0	20.0	---
11	9.5	6.0	0.0	1.0	6.0	7.0	16.0	---	18.0	18.5	21.0	17.0
12	9.0	5.5	---	---	4.0	6.0	15.0	---	17.0	20.0	19.0	17.0
13	9.0	5.0	1.5	1.5	7.0	8.0	14.0	---	19.0	18.0	18.0	---
14	9.0	5.0	1.0	3.0	7.5	4.0	14.5	9.5	17.0	19.5	20.5	---
15	8.5	6.5	1.0	3.0	---	3.0	15.0	---	17.5	19.5	20.5	15.0
16	8.0	---	1.0	2.5	9.0	5.0	15.5	---	17.0	18.0	16.0	12.5
17	7.0	6.5	0.0	2.5	9.0	7.0	---	8.0	17.0	20.0	---	11.5
18	6.0	6.0	3.0	3.0	8.0	5.0	---	15.0	---	20.0	20.0	12.0
19	5.0	6.5	1.0	2.0	7.0	4.0	14.0	16.0	17.0	20.0	20.0	14.0
20	5.5	7.0	1.0	3.0	9.0	5.0	14.5	18.0	17.0	21.0	---	14.0
21	5.0	7.0	1.0	4.0	7.0	6.0	---	---	17.5	---	20.0	14.5
22	4.5	6.5	---	4.0	6.0	9.5	---	---	17.0	18.0	---	15.0
23	4.0	5.0	---	4.0	6.0	8.0	---	13.0	---	---	---	12.5
24	4.0	4.0	0.5	1.0	6.0	6.5	---	14.0	---	---	---	12.5
25	4.5	4.0	0.5	2.0	3.0	7.0	---	14.5	16.0	---	18.0	12.0
26	5.0	4.0	0.5	2.5	---	8.5	---	15.0	18.0	17.0	---	14.0
27	4.0	4.0	0.0	3.0	---	7.0	---	15.5	17.5	19.0	17.5	---
28	3.5	---	0.0	2.5	7.0	6.5	---	17.0	17.0	20.5	18.5	---
29	3.0	---	0.0	3.0	---	4.5	---	17.0	---	---	---	---
30	3.0	---	0.0	4.0	---	---	---	18.0	17.0	21.0	20.0	---
31	3.5	---	0.0	---	---	7.5	---	20.0	---	---	18.0	---
MEAN	6.6	5.9	0.6	1.9	5.7	5.5	13.6	15.0	17.6	18.6	19.4	15.7
MAX	10.0	7.5	3.0	4.0	9.0	9.5	17.5	20.0	20.0	21.0	21.5	20.0
MIN	3.0	4.0	0.0	0.0	3.0	1.5	5.0	8.0	16.0	17.0	16.0	11.5

WTR YR 1977 MEAN 9.9 MAX 21.5 MIN 0.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

10251980 LOVELL WASH NEAR BLUE DIAMOND, NV

LOCATION.--Lat 36°00'10", long 115°38'38", in NE¼SW¼ sec.25, T.22 S., R.56 E., Clark County, Hydrologic Unit 16060015, on right bank 0.2 mi (0.3 km) downstream from county road, 13.7 mi (22.0 km) west of Blue Diamond, and 24 mi (39 km) southeast of Pahrump.

DRAINAGE AREA.--52.8 mi^2 (136.8 km^2).

PERIOD OF RECORD.--Water years 1965-66 (annual maximum), October 1966 to September 1977, discontinued as a continuous record station; converted to a crest-stage partial record station.

GAGE.--Water-stage recorder. Altitude of gage is 3,840 ft (1,170 m), approximately (from topographic map). October 1966 to Jan. 25, 1969, flood-hydrograph recorder at site 0.2 mi (0.3 km) upstream at culverts at different datum.

REMARKS.--No flow since Sept. 10, 1976.

AVERAGE DISCHARGE.-- 11 years, 0.273 ft^3/s (0.0077 m^3/s), 198 acre-ft/yr (244,100 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft^3/s (118 m^3/s) Jan. 25, 1969, from indirect measurement of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.-- No flow during year.

10288500 WALKER LAKE NEAR HAWTHORNE, NV

LOCATION.--Lat 38°35'05", long 118°42'15", in NE¼NE¼ sec.2, T.8 N., R.29 E., Mineral County, Hydrologic Unit 16050304, 5.5 mi (8.8 km) northwest of Hawthorne.

PERIOD OF RECORD.--August 1928 to current year. Occasional readings prior to August 1928.

DRAINAGE AREA.--4,050 mi^2 (10,500 km^2), approximately.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (U.S. Coast & Geodetic Survey bench mark at U.S. Naval Depot).

REMARKS.--Elevations determined from reference points referred to U.S.C. & G.S. bench mark. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,955,000 acre-ft (8.58 km^3) Mar. 13, 1928, elevation, 4,051.8 ft (1,234.99 m), Indian Service; minimum observed, 2,656,000 acre-ft (3.27 km^3) Sept. 21, 1977, elevation, 3,960.9 ft (1,207.28 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 4,078.0 ft (1,242.97 m), adjustment of 1912, was observed Sept. 27, 1908, by Geological Survey (contents, 8,622,000 acre-ft or 10.6 km^3, table now in use).

MONTHEND ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sep. 30.	3,964.2	2,777,000	
Oct. 31.	3,963.9	2,766,000	-11,000
Nov. 31.	3,963.6	2,755,000	-11,000
Dec. 31.	3,963.3	2,744,000	-11,000
CAL YR 1976.	--	--	-107,000
Jan. 31.	3,963.1	2,737,000	-7,000
Feb. 28.	3,963.0	2,733,000	-4,000
Mar. 31.	3,962.8	2,726,000	-7,000
Apr. 30.	3,962.6	2,718,000	-8,000
May 31.	3,962.7	2,722,000	+4,000
June 30.	3,962.6	2,718,000	-4,000
July 31.	3,962.3	2,707,000	-11,000
Aug. 31.	3,961.4	2,675,000	-32,000
Sep. 30.	3,960.8	2,653,000	-22,000
WTR YR 1976-77	--	--	-124,000

NOTE.--Monthend elevations are interpolated from readings made during the month.

10290300 UPPER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°09'15", long 119°20'58", in NW¼NE¼ sec.5, T.3 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of upper lake dam on Robinson Creek and 10 mi (16 km) southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi^2 (76.4 km^2).

PERIOD OF RECORD.--December 1961 to February 1964, September 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum of U.S. Indian Irrigation Service).

REMARKS.--Contents regulated by dam at outlet. Figures given herein represent usable contents. Usable contents, 2,070 acre-ft (2.55 hm^3) between elevations 7,200 ft (2,194.6 m) natural rim, and 7,207 ft (2,196.7 m), spillway crest.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,900 acre-ft (3.58 hm^3) June 22, July 5, 6, 1967, elevation, 7,209.58 ft (2,197.480 m); minimum observed, 62 acre-ft (76,400 m^3) Oct. 31, Nov. 1, 1964, elevation, 7,200.22 ft (2,194.627 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--No contents observed Oct. 17, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,420 acre-ft (2.98 hm^3) June 9, elevation, 7,208.09 ft (2,197.026 m); minimum, 258 acre-ft (.318 hm^3) Dec. 7, elevation, 7,200.92 ft (2,194.840 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in Contents (acre-ft)
Sep. 30	7,200.96	269	--
Oct. 31	7,201.02	286	+17
Nov. 30	7,201.00	280	-6
Dec. 31	7,701.72	482	+202
CAL YR 1976.	--	--	-1,608
Jan. 31	--	g787	+305
Feb. 28	7,204.44	g1,270	+483
Mar. 31	7,205.65	1,640	+370
Apr. 30	7,207.50	2,230	+590
May 31	7,204.78	1,370	-860
June 30	7,207.32	2,170	+800
July 31	7,203.89	1,100	-1,070
Aug. 31	--	g397	-703
Sep. 30	--	g283	-114
WTR YR 1976-77	--	--	+14

g Interpolated.

10290400 LOWER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'05", long 119°19'33", in NE¼NE¼ sec.33, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of lower lake dam on Robinson Creek and 8 mi (13 km) southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi^2 (100.8 km^2).

PERIOD OF RECORD.--December 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum of U.S. Indian Irrigation Service).

REMARKS.--Contents regulated by dam at outlet and by Upper Twin Lake. Figures given herein represent usable contents. Usable contents, 4,010 acre-ft (4.94 hm^3) between elevations 7,190 ft (2,192 m) natural rim, and 7,200 ft (2,195 m), spillway crest. One transarea diversion out of Tamarack Creek into Summers Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,490 acre-ft (6.77 hm^3) June 6, 1969, elevation, 7,203.51 ft (2,195.630 m); no contents Nov. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,220 acre-ft (2.73 hm^3) June 27, elevation, 7,195.54 ft (2,193.201 m); minimum interpolated, 584 acre-ft (0.720 hm^3) Nov. 23, elevation 7,191.46 ft. (2,191.957 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sep. 30	--	g904	--
Oct. 31	--	g668	-236
Nov. 30	--	g674	+6
Dec. 31	7,192.05	820	+146
CAL YR 1976	--	--	-1,600
Jan. 31	7,192.53	1,010	+190
Feb. 28	7,193.06	1,220	+210
Mar. 31	7,193.46	1,380	+160
Apr. 30	7,194.05	1,620	+240
May 31	7,193.30	1,320	-300
June 30	7,195.51	2,200	+880
July 31	7,193.78	1,510	-690
Aug. 31	7,192.42	968	-542
Sep. 30	7,192.10	840	-128
WTR YR 1976-77	--	--	-64

g Interpolated.

10291500 BUCKEYE CREEK NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°14'20", long 119°19'30", in NE¼NE¼ sec.4, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank at Buckeye Hot Springs, 0.6 mi (1.0 km) downstream from Eagle Creek, and 5.5 mi (8.8 km) southwest of Bridgeport.

DRAINAGE AREA.--44.1 mi^2 (114.2 km^2).

PERIOD OF RECORD.--November 1910 to September 1914 (fragmentary), October 1953 to current year.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft (2,103 m), from topographic map. November 1910 to September 1914, nonrecording gage at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records excellent except those for winter periods, which are poor. No regulation or diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--25 years (1911-12, 1953-77), 57.2 ft^3/s (1.620 m^3/s), 41,440 acre-ft/yr (51.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 947 ft^3/s (26.8 m^3/s) Feb. 1, 1963, gage height, 4.41 ft (1.344 m), from rating curve extended above 360 ft^3/s (10.2 m^3/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m); minimum, 3.3 ft^3/s (0.094 m^3/s) Dec. 12, 1959, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1911, reached an observed stage of 4.8 ft (1.46 m), discharge not determined, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 160 ft^3/s (4.53 m^3/s) June 9 (1700 hrs), gage height, 2.69 ft (0.820 m), no other peak above base of 100 ft^3/s (2.83 m^3/s); minimum, 4.4 ft^3/s (0.12 m^{3}s) Dec. 10, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	14	12	12	9.5	9.0	13	34	94	34	12	7.8
2	26	14	12	11	9.5	9.5	13	31	94	32	12	7.6
3	24	14	12	9.9	10	10	13	30	87	30	12	7.6
4	20	14	12	12	9.9	10	16	27	89	28	12	7.5
5	19	14	11	13	9.4	9.5	19	28	99	26	11	7.4
6	18	14	11	13	9.5	10	23	25	89	24	11	7.3
7	17	14	11	11	9.5	11	27	24	86	23	11	7.2
8	17	14	12	10	9.6	11	30	25	90	22	10	7.2
9	16	14	12	10	9.6	11	29	25	118	21	10	7.3
10	15	14	12	11	9.5	11	26	24	96	20	10	7.2
11	15	14	11	11	9.6	10	25	23	73	19	9.9	7.1
12	15	14	12	11	9.8	11	26	23	64	18	9.8	7.4
13	15	13	12	11	10	11	29	23	60	18	9.4	7.7
14	15	14	11	11	10	10	26	23	53	18	9.4	7.4
15	15	15	11	10	10	11	31	30	52	17	9.1	7.3
16	15	14	11	10	11	11	38	28	51	17	9.0	7.8
17	15	14	11	10	11	11	43	25	49	16	9.6	8.3
18	15	14	11	10	11	11	39	25	44	16	10	8.0
19	15	14	10	10	11	11	32	25	42	16	13	7.9
20	15	14	10	10	11	12	31	28	40	16	10	8.4
21	14	14	10	10	11	13	32	39	40	17	9.2	8.2
22	15	13	10	10	11	16	33	51	38	16	8.8	7.9
23	15	13	10	9.7	11	15	36	45	37	15	8.5	7.7
24	14	13	11	9.6	10	13	40	37	35	14	8.3	7.5
25	14	13	12	9.6	10	13	40	34	34	14	8.5	7.4
26	14	13	11	9.7	10	13	41	33	33	13	8.6	7.3
27	13	10	11	9.9	10	14	41	31	36	13	8.5	7.3
28	13	11	11	10	11	14	44	33	43	13	8.3	7.2
29	14	12	16	10	---	14	46	41	50	12	8.0	7.2
30	13	12	13	11	---	13	42	51	36	12	7.8	7.5
31	13	---	12	9.7	---	13	---	76	---	12	7.8	---
TOTAL	492	404	354	326.1	284.4	362.0	924	997	1852	582	302.5	226.6
MEAN	15.9	13.5	11.4	10.5	10.2	11.7	30.8	32.2	61.7	18.8	9.76	7.55
MAX	26	15	16	13	11	16	46	76	118	34	13	8.4
MIN	13	10	10	9.6	9.4	9.0	13	23	33	12	7.8	7.1
AC-FT	976	801	702	647	564	718	1830	1980	3670	1150	600	449

CAL YR 1976 TOTAL 9642.0 MEAN 26.3 MAX 138 MIN 10 AC-FT 19120
WTR YR 1977 TOTAL 7106.6 MEAN 19.5 MAX 118 MIN 7.1 AC-FT 14100

10292500 BRIDGEPORT RESERVOIR NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'30", long 119°12'40", in SE¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at Bridgeport Dam on East Walker River, 4.5 mi (7.2 km) north of Bridgeport.

DRAINAGE AREA.--358 mi^2 (927 km^2).

PERIOD OF RECORD.--March 1926 to current year. Month-end contents only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1949. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (project datum).

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam. Storage began Dec. 8, 1923. Dam completed in November 1924. Capacity, 42,460 acre-ft (52.4 hm^3) between elevations 6,415 ft (1,955.3 m), approximate elevation of bottom of reservoir, and 6,461 ft (1,969.3 m), crest of spillway is at elevation 6,460.75 ft (1,969.237 m), however, there are four siphons that became operative prior to reaching this spillway. Elevation of sill of outlet gate, 6,412 ft (1,954.4 m). No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 44,880 acre-ft (55.3 hm^3) June 16, 1974, elevation, 6,460.78 ft (1,969.246 m); no contents during fall of 1929, 1930, 1960, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 14,580 acre-ft (18.0 hm^3) Mar. 11, 14-16, elevation, 6,447.43 ft (1,965.177 m); minimum, no contents Sept. 10-30, elevation, 6,415.00 ft (1,955.292 m).

Capacity Table, (elevation, in feet, and contents, in acre-ft)

6,415	0	6,437	4,050
6,418	20	6,439	5,440
6,421	115	6,441	7,120
6,424	269	6,443	9,100
6,427	539	6,445	11,380
6,430	1,130	6,447	13,990
6,433	2,050	6,449	17,060
6,435	2,920	6,451	20,620

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3840	4820	7080	9000	11140	13850	14360	12190	10550	8590	411	89.00
2	3900	4930	7120	9100	11200	13920	14430	12070	10380	8490	390	77.00
3	3960	5000	7220	9160	11260	13990	14430	11940	10140	8390	356	65.00
4	4020	5110	7310	9210	11320	14140	14510	11820	9920	8230	314	75.00
5	4080	5180	7360	9270	11380	14210	14510	11690	9760	8130	276	85.00
6	4150	5260	7410	9320	11500	14290	14510	11630	9600	7940	272	67.00
7	4220	5330	7460	9430	11570	14360	14510	11570	9540	7790	288	45.00
8	4280	5400	7600	9480	11690	14510	14510	11630	9380	7600	292	22.00
9	4310	5520	7650	9540	11760	14510	14430	11690	9380	7460	292	10.00
10	4380	5560	7700	9600	11880	14510	14360	11690	9540	7310	288	.00
11	4410	5680	7740	9650	11940	14580	14290	11760	9600	7170	272	.00
12	4480	5720	7840	9700	12070	14510	14210	11990	9650	6860	269	.00
13	4510	5800	7890	9760	12130	14510	14140	12000	9710	6590	263	.00
14	4510	5880	7940	9820	12260	14580	14060	12070	9760	6280	263	.00
15	4510	5960	8030	9870	12380	14580	14060	12070	9820	5960	263	.00
16	4480	6040	8080	9920	12500	14580	14060	12000	9760	5600	252	.00
17	4480	6120	8130	10040	12570	14510	13920	12000	9700	5220	249	.00
18	4480	6200	8180	10090	12630	14510	13850	11940	9600	4780	258	.00
19	4480	6240	8230	10090	12770	14510	13720	11940	9700	4540	263	.00
20	4480	6330	8280	10140	12830	14510	13580	11880	9700	4080	282	.00
21	4480	6420	8390	10200	13110	14510	13450	11820	9650	3630	269	.00
22	4450	6460	8390	10320	13240	14510	13310	11760	9600	3260	272	.00
23	4450	6590	8440	10410	13380	14430	13170	11690	9540	2870	269	.00
24	4450	6680	8490	10500	13450	14360	12970	11630	9430	2520	269	.00
25	4410	6720	8540	10610	13510	14360	12830	11570	9270	2130	269	.00
26	4410	6810	8640	10670	13650	14360	12700	11440	9160	2030	252	.00
27	4410	6810	8690	10730	13720	14290	12500	11320	9050	1590	219	.00
28	4510	6900	8740	10850	13790	14290	12440	11260	9000	875	193	.00
29	4580	6940	8840	10910	---	14290	12380	11030	8900	634	144	.00
30	4640	6990	8840	10970	---	14290	12260	10850	8740	515	117	.00
31	4750	---	8950	11080	---	14360	---	10730	---	456	103	---
MAX	4750	6990	8950	11080	13790	14580	14510	12190	10550	8590	411	89.00
MIN	3840	4820	7080	9000	11140	13850	12260	10730	8740	456	103	.00
†	6438.05	6440.86	6442.83	6644.73	6646.87	6647.25	6645.68	6644.43	6642.67	6626.28	6620.70	6615.00
‡	+1000	+2240	+1960	+2130	+2710	+570	-2100	-1530	-1990	-8284	-353	-103

CAL YR 1976 MAX 40270 MIN 3420 (‡) -20330
WTR YR 1977 MAX 14580 MIN 0 (‡) -3750

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank 1,500 ft (500 m) downstream from Bridgeport Reservoir, 5 mi (8 km) north of Bridgeport, and 10 mi (16 km) upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi^2 (930 km^2).

WATER DISCHARGE RECORD

PERIOD OF RECORD.--July 1911 to September 1914 (gage heights only), October 1921 to current year.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m) from topographic map. Prior to Oct. 1, 1921, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Oct. 1, 1921, to Feb. 21, 1924, water-stage recorder at site 1 mi (2 km) downstream at different datum. Feb. 22, 1924, to Sept. 30, 1931, water-stage recorder, and Oct. 1, 1931, to May 25, 1939, nonrecording gage at present site at datum 2.34 ft (0.713 m) lower.

REMARKS.--Records good. Diversions for irrigation of meadow pasture lands near Bridgeport. Flow regulated by Bridgeport Reservoir.

AVERAGE DISCHARGE.--54 years (1922-24, 1925-77), 136 ft^3/s (3.852 m^3/s), 98,530 acre-ft/yr (121 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) June 19, 1963, gage height, 4.64 ft (1.414 m); maximum gage height, 4.95 ft (1.509 m) Jan. 22, 1943 (top of surge); minimum daily discharge, 0.2 ft^3/s (0.006 m^3/s) Nov. 2-29, Dec. 1-22, 25-28, 1955, Jan. 17-25, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 284 ft^3/s (8.04 m^3/s) July 25, gage height, 2.02 ft (0.616 m); minimum daily, 2.7 ft^3/s (0.08 m^3/s) Mar. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	8.9	9.8	9.8	10	4.9	15	79	124	106	41	14
2	23	8.9	9.8	9.8	10	4.8	15	79	129	86	38	13
3	23	9.4	9.8	9.8	10	4.6	16	79	140	86	45	13
4	23	9.4	9.8	9.8	10	4.6	16	76	140	86	44	8.1
5	23	9.4	9.8	9.8	10	3.7	16	69	139	93	37	11
6	23	9.4	9.8	9.8	10	3.4	29	61	132	110	21	18
7	23	9.4	9.8	9.8	10	2.9	36	54	118	104	21	11
8	23	9.4	9.8	9.8	10	6.0	36	37	118	89	21	10
9	23	9.4	9.8	9.8	9.2	25	41	33	115	89	21	17
10	23	9.8	9.8	9.8	5.9	25	61	25	101	89	21	20
11	23	9.8	9.8	9.8	5.4	34	61	25	91	107	18	21
12	32	9.8	9.8	9.8	5.5	39	61	25	91	155	13	19
13	53	9.8	9.8	9.8	5.3	39	59	25	86	154	12	20
14	53	9.8	9.8	9.8	5.3	39	49	36	78	157	12	19
15	53	9.8	9.8	9.8	5.3	39	43	45	78	173	12	18
16	53	9.8	9.8	10	5.3	39	47	49	82	188	12	17
17	53	9.8	9.8	10	5.3	39	58	63	90	195	12	17
18	53	9.8	9.8	10	5.3	39	68	60	90	224	12	17
19	54	9.8	9.8	10	5.3	39	91	54	91	237	12	18
20	54	9.8	9.8	10	5.3	39	92	54	87	234	14	17
21	53	9.8	9.8	10	5.3	39	88	55	78	222	15	18
22	53	9.8	9.8	10	5.3	39	78	55	79	193	14	19
23	53	9.8	9.8	10	5.0	39	88	57	79	183	14	19
24	53	9.8	9.8	10	4.9	39	111	62	79	197	16	19
25	53	9.8	9.8	10	4.9	39	105	54	86	211	23	20
26	39	9.8	9.8	10	4.9	39	92	64	100	204	30	20
27	29	9.8	9.8	10	4.9	25	87	91	100	180	29	20
28	28	9.8	9.8	10	4.9	15	81	100	100	138	28	20
29	21	9.8	9.8	10	---	15	81	125	106	66	24	20
30	8.9	9.8	9.8	10	---	15	81	124	117	55	14	21
31	8.9	---	9.8	10	---	15	---	124	---	47	14	---
TOTAL	1110.0	289.4	303.8	307.0	188.5	788.9	1802	1939	3044	4458	660	514.1
MEAN	35.8	9.65	9.80	9.90	6.73	25.4	60.1	62.5	101	144	21.3	17.1
MAX	54	9.8	9.8	10	10	39	111	125	140	237	45	21
MIN	8.9	8.9	9.8	9.8	4.9	2.9	15	25	78	47	12	8.1
AC-FT	2200	574	603	609	374	1560	3570	3850	6040	8840	1310	1020

CAL YR 1976 TOTAL 26109.5 MEAN 71.3 MAX 272 MIN 8.9 AC-FT 51790
WTR YR 1977 TOTAL 15405.5 MEAN 42.2 MAX 237 MIN 2.9 AC-FT 30560

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977*

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
APR								
13...	1140	E60	267	8.1	9.0	7	8.7	86
28...	1055	78	271	--	11.0	--	--	--
JUN								
30...	1200	119	293	--	19.5	--	--	--
AUG								
02...	1030	36	301	--	25.5	--	--	--
23...	1140	14	282	--	22.0	--	--	--
SEP								
21...	1315	E19	246	7.9	16.0	70	5.5	73

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
APR								
13...	25	5.7	21	1.0	135	0	2.4	188
28...	--	--	--	--	--	--	--	--
JUN								
30...	--	--	--	--	--	--	--	--
AUG								
02...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
SEP								
21...	22	4.4	22	1.1	106	0	5.0	182

* DATA FROM CALIF. DEPT. OF WATER RESOURCES.
E: ESTIMATED.

10293050 EAST WALKER RIVER BELOW SWEETWATER CREEK, NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°26'27", long 119°06'18", in NW¼NW¼ sec.29, T.7 N., R.26 E., Lyon County, Hydrologic Unit 16050301, in Toiyabe National Forest, on left bank, 10 ft (3 m) downstream from bridge, 1.8 mi (2.9 km) downstream from Sweetwater Creek, and about 16 mi (26 km) north-northeast of Bridgeport.

DRAINAGE AREA.--467 mi² (1,210 km²).

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,760 m), from topographic map.

REMARKS.--Records good except those for winter months and periods of no gage-height record, July 6 to Aug. 2, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) Aug. 5, 1974, gage height, 7.43 ft (2.265 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Mar. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined, maximum gage height about 5.50 ft (1.676 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Mar. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	12	18	14	6.0	16	68	137	166	27	17
2	20	11	11	19	14	5.5	15	69	147	141	33	15
3	20	11	11	20	15	5.6	14	74	162	135	39	16
4	21	10	12	19	14	6.0	14	75	149	128	42	15
5	21	11	12	17	15	5.5	14	66	153	131	38	16
6	21	11	11	16	14	5.8	16	61	151	130	22	14
7	21	11	11	15	13	5.5	26	62	126	120	19	18
8	20	11	13	16	14	5.2	30	40	131	105	19	13
9	21	11	14	14	14	8.4	32	37	145	105	19	12
10	22	11	12	16	12	16	49	26	120	105	22	12
11	24	11	12	14	9.6	20	59	23	106	115	22	16
12	23	11	12	16	9.6	26	66	25	100	147	16	21
13	44	11	14	15	9.6	25	69	26	98	147	18	21
14	45	11	12	16	9.6	30	59	27	89	150	21	21
15	46	10	12	16	9.6	29	50	45	85	165	18	21
16	45	8.4	12	15	9.6	29	42	46	101	175	19	19
17	46	8.4	12	15	9.6	30	49	58	110	185	20	18
18	45	8.4	12	16	10	30	57	61	115	210	21	18
19	46	8.4	13	16	9.6	30	98	53	141	220	18	18
20	46	8.4	13	16	9.2	30	103	53	120	215	17	19
21	49	8.8	13	17	12	30	101	54	100	210	17	19
22	49	8.4	13	18	11	30	98	54	98	180	18	20
23	49	8.4	14	18	10	30	98	54	108	170	17	20
24	49	9.6	14	16	9.2	30	103	66	89	180	18	21
25	50	10	14	15	9.2	29	101	61	105	185	19	21
26	45	9.6	14	16	8.8	30	90	59	110	180	26	22
27	28	7.7	14	14	8.0	31	75	98	112	150	34	23
28	26	8.8	15	16	7.2	16	65	101	112	100	35	23
29	23	11	16	14	---	15	65	130	115	50	29	24
30	15	12	17	16	---	16	69	128	135	36	23	25
31	11	---	17	16	---	17	---	133	---	35	21	---
TOTAL	1014	299.8	404	501	310.4	622.5	1743	1933	3570	4471	727	558
MEAN	32.7	9.98	13.0	16.2	11.1	20.1	58.1	62.4	119	144	23.5	18.6
MAX	50	12	17	20	15	31	103	133	162	220	42	25
MIN	11	7.7	11	14	7.2	5.2	14	23	85	35	16	12
AC-FT	2010	594	801	994	616	1230	3460	3830	7080	8870	1440	1110

CAL YR 1976 TOTAL 26266.3 MEAN 71.8 MAX 284 MIN 7.7 AC-FT 52100
WTR YR 1977 TOTAL 16153.2 MEAN 44.3 MAX 220 MIN 5.2 AC-FT 32040

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH, NEAR MASON, NV

LOCATION.--Lat 38°48'45", long 119°02'50", in NW¼SW¼ sec.14, T.11 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on right bank 0.9 mi (1.4 km) upstream from head of Strosnider ditch, 12 mi (19 km) southeast of Mason, and 13.5 mi (21.7 km) southeast of Yerington.

DRAINAGE AREA.--1,100 mi^2 (2,849 km^2), approximately.

PERIOD OF RECORD.--January 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft (1,394.186 m) above mean sea level, datum of 1929. Prior to Oct. 24, 1957, near present site at datum 0.56 ft (0.171 m) higher. Oct. 24, 1957, to Apr. 3, 1974, at site 400 ft (120 m) downstream at same datum.

REMARKS.--Records good except for winter periods, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--30 years, 141 ft^3/s (3.993 m^3/s), 102,200 acre-ft/yr (126 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Feb. 1, 1963, gage height, 7.60 ft (2.316 m); minimum daily, 2.3 ft^3/s (0.065 m^3/s) Mar. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 195 ft^3/s (5.52 m^3/s) July 22, gage height, 2.86 ft (0.872 m); minimum daily, 2.3 ft^3/s (0.065 m^3/s) Mar. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	31	26	31	22	16	16	61	91	118	30	20
2	38	29	26	33	22	16	16	55	93	110	33	13
3	37	29	26	35	21	15	16	54	93	91	34	10
4	36	28	27	28	20	14	15	55	100	85	39	12
5	35	28	28	25	20	13	14	58	102	80	48	10
6	34	28	28	23	21	11	14	57	100	80	44	11
7	33	27	29	21	22	8.9	14	54	102	94	38	11
8	33	27	30	21	23	7.0	15	52	93	87	29	11
9	32	26	30	20	23	6.9	15	46	103	72	28	9.7
10	32	25	29	23	23	6.0	17	37	123	70	26	10
11	32	25	30	22	21	3.9	20	32	97	71	24	10
12	32	25	30	25	19	2.3	29	28	91	72	23	9.7
13	32	25	29	23	19	3.4	38	28	83	108	23	10
14	39	26	29	23	18	6.9	43	28	83	108	20	11
15	49	27	28	23	18	8.5	39	25	75	110	18	12
16	51	26	28	22	18	13	32	38	71	119	17	13
17	50	25	28	23	18	19	28	46	70	135	17	13
18	51	24	27	23	18	23	25	50	79	144	18	12
19	52	23	27	23	18	23	30	55	100	171	17	13
20	52	23	27	24	18	27	52	51	103	182	18	14
21	52	23	27	24	18	23	57	48	96	182	16	14
22	55	24	27	25	18	21	57	50	83	182	15	15
23	57	23	27	25	19	24	50	49	77	156	15	15
24	61	23	27	25	19	23	47	51	77	139	16	16
25	61	23	27	23	18	24	66	57	75	154	17	17
26	59	22	27	21	18	27	72	53	75	166	21	16
27	58	21	27	22	16	26	62	47	90	156	30	17
28	45	23	28	22	16	25	60	67	91	139	35	18
29	45	25	28	22	---	23	50	76	87	110	35	18
30	44	26	29	21	---	18	50	91	87	63	26	19
31	39	---	30	21	---	17	---	94	---	41	22	---
TOTAL	1365	760	866	742	544	494.8	1059	1593	2690	3595	792	400.4
MEAN	44.0	25.3	27.9	23.9	19.4	16.0	35.3	51.4	89.7	116	25.5	13.3
MAX	61	31	30	35	23	27	72	94	123	182	48	20
MIN	32	21	26	20	16	2.3	14	25	70	41	15	9.7
AC-FT	2710	1510	1720	1470	1080	981	2100	3160	5340	7130	1570	794

CAL YR 1976 TOTAL 25417.9 MEAN 69.4 MAX 238 MIN 3.5 AC-FT 50420
WTR YR 1977 TOTAL 14901.2 MEAN 40.8 MAX 182 MIN 2.3 AC-FT 29560

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'30", long 119°26'30", in NW¼NW¼ sec.22, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 0.8 mi (1.3 km) north of Sonora Junction, 1.5 mi (2.4 km) upstream from mouth, and 14 mi (23 km) northwest of Bridgeport.

DRAINAGE AREA.--63.0 mi² (163.2 km²).

PERIOD OF RECORD.--April to August 1910, October 1944 to current year. Prior to October 1958, published as East Fork West Walker River near Bridgeport.

GAGE.--Water-stage recorder. Altitude of gage is 6,790 ft (2,070 m), from topographic map. April to August 1910, nonrecording gage at site 1 mi (2 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are poor. Small diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--33 years (1944-77) 49.7 ft³/s (1.408 m³/s), 36,010 acre-ft/yr (44.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) Jan. 31, 1963, gage height, 3.22 ft (0.982 m), from rating curve extended above 350 ft³/s (9.91 m³/s) on basis of slope-area measurement at gage height 2.80 ft (0.853 m); maximum gage height recorded, 3.63 ft (1.106 m) Jan. 3, 1945 (backwater from ice); minimum discharge 1.7 ft³/s (0.05 m³/s) Aug. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 125 ft³/s (3.54 m³/s) June 9, gage height, 1.49 ft (0.454 m), maximum gage height, 1.75 ft (0.533 m) Dec. 24 (backwater from ice); no peak above base of 200 ft³/s (5.66 m³/s); minimum discharge 1.7 ft³/s (0.05 m³/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	10	10	11	10	11	20	54	21	6.6	4.4
2	19	13	11	15	10	10	11	17	55	19	10	4.1
3	16	13	12	12	9.0	11	11	15	51	18	11	4.1
4	15	13	12	10	9.0	12	14	13	57	17	10	4.4
5	14	13	12	9.5	10	10	19	14	60	16	9.8	4.4
6	14	13	11	9.0	10	11	22	12	54	15	8.9	4.5
7	14	12	11	8.5	10	11	24	12	56	13	9.0	4.5
8	14	12	12	8.0	9.2	10	24	15	54	12	8.7	4.6
9	14	12	15	9.0	10	10	20	16	75	11	8.3	4.6
10	14	12	13	10	11	9.5	18	13	61	11	5.6	4.3
11	13	12	12	10	10	10	18	13	50	11	3.3	3.8
12	13	12	12	11	11	11	19	14	44	9.3	3.0	4.6
13	13	12	12	10	10	10	19	14	41	8.8	2.7	4.4
14	14	13	12	9.0	10	9.0	18	11	36	8.3	2.9	4.2
15	13	14	12	8.5	10	9.5	21	12	36	7.9	2.7	4.1
16	13	12	11	9.2	11	10	28	13	34	7.4	2.6	4.9
17	13	12	11	9.0	11	9.5	29	11	32	6.8	3.6	5.6
18	13	12	11	9.2	11	9.5	25	12	31	6.4	4.8	5.7
19	13	12	11	9.7	11	10	22	12	32	6.0	4.8	5.4
20	13	12	10	9.6	12	10	20	13	32	7.5	5.5	6.4
21	13	12	9.5	11	13	11	21	18	30	10	4.3	6.1
22	14	12	9.0	14	15	14	24	24	28	7.6	3.5	5.9
23	13	12	8.5	16	11	14	26	22	25	6.4	3.2	5.4
24	13	11	9.0	15	15	13	27	20	24	5.8	3.0	5.3
25	13	10	10	13	13	11	27	18	24	5.3	3.4	5.5
26	13	8.5	10	12	12	11	27	18	24	5.2	3.8	5.4
27	14	8.0	9.6	12	12	12	27	16	28	4.7	3.9	5.5
28	16	8.5	10	11	12	13	30	17	27	4.4	3.7	5.4
29	16	9.0	11	11	---	12	28	20	28	4.1	4.4	5.2
30	13	9.5	11	11	---	11	24	26	23	3.9	5.8	5.6
31	13	---	11	13	---	10	---	42	---	4.2	5.0	---
TOTAL	432	349.5	341.6	335.2	309.2	335.0	654	513	1206	294.0	167.8	148.5
MEAN	13.9	11.7	11.0	10.8	11.0	10.8	21.8	16.5	40.2	9.48	5.41	4.95
MAX	19	14	15	16	15	14	30	42	75	21	11	6.4
MIN	13	8.0	8.5	8.0	9.0	9.0	11	11	23	3.9	2.6	3.8
AC-FT	857	693	678	665	613	664	1300	1020	2390	583	333	295

CAL YR 1976 TOTAL 7326.6 MEAN 20.0 MAX 85 MIN 6.8 AC-FT 14530
WTR YR 1977 TOTAL 5085.8 MEAN 13.9 MAX 75 MIN 2.6 AC-FT 10090

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CA

LOCATION.--Lat 38°22'47", long 119°26'57", in NE¼SE¼ sec.9, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank 150 ft (50 m) downstream from Little Walker River, 60 ft (20 m) upstream from bridge on U.S. Highway 395, and 13 mi (21 km) southeast of Coleville.

DRAINAGE AREA.--180 mi^2 (466 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1958, published as "below East Fork."

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,591.39 ft (2,009.056 m) above mean sea level, datum of 1929, supplementary adjustment of 1958. Oct. 1, 1939, to Sept. 30, 1969, at site 100 ft (30 m) upstream at same datum. Prior to Oct. 1, 1939, at site 25 ft (8 m) downstream at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 7 mi (11 km) upstream.

AVERAGE DISCHARGE.--39 years, 252 ft^3/s (7.137 m^3/s), 182,600 acre-ft/yr (225 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,220 ft^3/s (176 m^3/s) Nov. 20, 1950, gage height, 8.10 ft (2.469 m), from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of slope-area measurement of peak flow; minimum, 4.0 ft^3/s (0.11 m^3/s) Nov. 18, 1948, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed prior to 1938, 5,800 ft^3/s (164 m^3/s) Dec. 11, 1937, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 571 ft^3/s (16.2 m^3/s) June 1, gage height, 2.97 ft (0.905 m); maximum gage height 3.15 ft (0.960 m) Jan. 31 (backwater from ice) no peak above base of 1,120 ft^3/s (31.7 m^3/s); minimum, 9.0 ft^3/s (0.25 m^3/s) Mar. 15, Sept. 7, 8, 11, 12, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	33	28	18	21	31	35	181	438	95	21	11
2	63	34	28	19	20	31	35	150	445	88	24	11
3	63	33	28	20	19	31	34	139	397	81	24	11
4	57	33	27	18	17	31	38	121	406	74	22	11
5	53	33	27	17	15	30	50	122	435	68	22	10
6	49	33	26	16	16	32	67	104	391	62	21	10
7	46	33	27	15	21	32	88	101	348	55	20	10
8	44	32	29	14	28	31	122	106	384	51	19	10
9	43	32	31	14	27	31	119	105	400	47	19	10
10	41	32	26	14	26	30	100	93	382	45	18	10
11	40	32	25	16	25	30	96	88	294	43	17	9.7
12	39	32	26	16	25	33	99	89	252	39	20	10
13	39	31	26	16	25	30	115	92	237	37	20	11
14	38	34	27	15	25	30	119	95	213	36	20	10
15	38	35	26	15	25	31	142	120	205	32	20	9.8
16	37	34	25	15	26	30	201	121	198	32	20	10
17	38	35	25	16	27	30	241	108	187	31	21	13
18	37	35	25	18	30	30	222	104	167	30	22	14
19	37	34	25	20	31	30	173	103	163	29	21	13
20	37	33	24	23	31	31	160	113	173	29	22	15
21	37	33	24	24	37	32	167	158	160	31	20	17
22	37	33	23	26	33	36	183	215	157	29	18	17
23	37	31	23	26	32	39	215	207	139	27	15	16
24	36	31	21	25	34	35	238	177	128	26	14	15
25	36	31	23	21	31	34	245	157	132	25	14	15
26	35	27	22	18	31	32	245	142	126	24	14	15
27	33	25	21	16	31	35	245	130	143	23	14	15
28	33	26	20	15	32	34	264	141	130	22	14	14
29	34	27	19	16	---	33	255	175	128	22	12	13
30	34	28	21	18	---	34	226	222	106	21	13	14
31	33	---	22	20	---	35	---	336	---	20	12	---
TOTAL	1268	955	770	560	741	994	4539	4315	7464	1274	573	370.5
MEAN	40.9	31.8	24.8	18.1	26.5	32.1	151	139	249	41.1	18.5	12.4
MAX	63	35	31	26	37	39	264	336	445	95	24	17
MIN	33	25	19	14	15	30	34	88	106	20	12	9.7
AC-FT	2520	1890	1530	1110	1470	1970	9000	8560	14800	2530	1140	735

CAL YR 1976 TOTAL 35434.0 MEAN 96.8 MAX 707 MIN 19 AC-FT 70280
WTR YR 1977 TOTAL 23823.5 MEAN 65.3 MAX 445 MIN 9.7 AC-FT 47250

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER NEAR COLEVILLE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977*

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
APR								
13...	1030	E123	208	8.1	5.0	2	9.6	42
SEP								
21...	1145	E18	360	8.3	11.0	0	8.9	56

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
APR								
13...	11	3.5	27	1.8	99	0	7.0	146
SEP								
21...	16	3.9	58	3.4	154	0	17	245

* DATA FROM CALIF. DEPT. OF WATER RESOURCES.
E ESTIMATED.

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW¼NE¼ sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank 0.2 mi (0.3 km) downstream from Rock Creek and 5 mi (8 km) southeast of Coleville.

DRAINAGE AREA.--271 mi² (702 km²).

PERIOD OF RECORD.--October 1902 to July 1908 (published as West Fork of Walker River near Coleville 1903, 1905-8 and as Walker River (West Fork) near Coleville 1904), March 1909 to September 1910, June 1915 to March 1938, May 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,520 ft (1,682 m), from topographic map. Prior to July 31, 1908, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 1, 1909, to Aug. 31, 1910, nonrecording gage, and June 18, 1915, to Aug. 15, 1919, water-stage recorder near present site at different datums. Aug. 16, 1919, to Mar. 31, 1938, water-stage recorder at site 1,000 ft (300 m) upstream at different datum. May 26, 1957, to Sept. 10, 1963, water-stage recorder at site 10 ft (3 m) downstream at datum 0.38 ft (0.116 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poor Lake Reservoir (capacity, unknown) 17 mi (27 km) upstream. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--48 years (1902-7, 1909-10, 1915-37, 1957-77), 269 ft³/s (7.618 m³/s), 194,900 acre-ft/yr (240 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft³/s (184 m³/s) Dec. 11, 1937, from slope-area measurement of peak flow; minimum, 5 ft³/s (0.14 m³/s) Dec. 3, 1924, Aug. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 584 ft³/s (16.5 m³/s) June 2, gage height, 2.01 ft (0.613 m), no peak above base of 1,120 ft³/s (31.7 m³/s); minimum, 14 ft³/s (0.40 m³/s) Sept. 5-8, 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	45	37	31	30	40	53	186	434	113	22	16
2	74	45	36	31	30	43	50	158	463	103	24	16
3	78	45	37	30	29	41	48	141	411	97	25	15
4	73	45	35	29	28	41	52	128	409	90	24	15
5	70	44	37	27	26	39	61	128	445	84	24	15
6	65	45	37	27	27	43	74	112	411	75	23	15
7	62	44	36	26	28	43	89	110	361	70	22	15
8	60	44	36	25	32	43	120	115	406	65	22	15
9	58	44	37	25	34	45	128	115	398	61	22	15
10	56	43	38	25	34	39	112	105	410	59	22	15
11	54	43	36	26	36	45	107	100	321	55	18	15
12	53	44	36	26	37	48	107	100	272	51	20	14
13	53	42	36	27	37	42	120	102	257	47	22	16
14	52	46	37	26	37	40	125	102	230	46	22	16
15	52	46	36	25	38	47	136	122	221	42	22	15
16	51	46	35	25	39	47	186	138	213	39	22	15
17	51	45	34	25	40	42	235	130	204	38	22	17
18	51	46	34	26	39	41	227	130	184	36	24	18
19	50	45	34	28	39	45	180	128	184	36	23	18
20	51	44	34	30	39	44	161	128	188	35	24	18
21	50	44	32	30	51	45	164	161	175	37	22	20
22	51	43	31	31	43	49	177	217	173	36	21	21
23	51	41	31	33	44	55	203	221	155	33	18	21
24	50	40	31	31	38	52	227	196	142	31	16	20
25	49	40	31	29	43	52	235	174	143	28	16	20
26	48	41	31	26	46	47	238	159	141	27	16	20
27	46	37	30	26	43	51	235	146	154	26	16	20
28	46	35	31	25	43	51	253	152	153	25	16	20
29	48	35	32	26	---	48	253	179	150	24	15	18
30	46	36	32	27	---	52	227	217	127	24	16	20
31	45	---	32	28	---	52	---	324	---	24	15	---
TOTAL	1704	1283	1062	852	1030	1412	4563	4624	7935	1557	636	514
MEAN	55.0	42.8	34.3	27.5	36.8	45.5	153	149	265	50.2	20.5	17.1
MAX	78	46	38	33	51	55	253	324	463	113	25	21
MIN	45	35	30	25	26	39	48	100	127	24	15	14
AC-FT	3380	2540	2110	1690	2040	2800	9090	9170	15740	3090	1260	1020

CAL YR 1976 TOTAL 39867 MEAN 109 MAX 719 MIN 30 AC-FT 79080
WTR YR 1977 TOTAL 27192 MEAN 74.5 MAX 463 MIN 14 AC-FT 53940

10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35", long 119°31'10", in NW¼NE¼ sec.33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050302, at outlet works of Topaz Lake on West Walker River, 5.5 mi (8.8 km) north of Topaz.

PERIOD OF RECORD.--December 1921 to September 1931 (monthly contents only published in WSP 1734), October 1931 to current year.

GAGE.--Float and nonrecording gages read once daily. Datum of gage is at mean sea level (levels by Walker River Irrigation District).

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft (73.3 hm³) between elevations 4,972.3 ft (1,515.56 m) lowest practical elevation for diversion through tunnel (bottom of outlet tunnel at elevation, 4,970 ft or 1,515 m) and 5,005 ft (1,526 m), 3 ft (0.9 m) below top of levee. Usable capacity of reservoir was increased from about 45,000 acre-ft (55.5 hm³) to 59,440 acre-ft (73.3 hm³) in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft (80.1 hm³) of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District.

COOPERATION.--Elevations furnished by Walker River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,310 acre-ft (74.4 hm³) June 23, 1974, elevation, 5,005.38 ft (1,525.640 m); no contents Oct. 31, 1924, Sept. 22, 24-30, Oct. 1-15, 1960, Aug. 19 to Sept. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,400 acre-ft (16.5 hm³) Mar. 7, elevation, 4,980.78 ft (1,518.142 m). No contents Aug. 19 to Sept. 30.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,972.3	0	4,977	7,320
4,973	1,080	4,179	10,520
4,975	4,180	4,981	13,760

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5900	5650	6930	8310	10600	13000	13200	12600	10700	7080	840.0	.00
2	5900	5710	6960	8370	10700	13000	13200	12500	10900	6910	750.0	.00
3	5900	5790	7010	8590	10700	13100	13200	12200	11000	6860	610.0	.00
4	5870	5870	7050	8590	10800	13200	13300	11900	11000	6720	490.0	.00
5	5870	5920	7080	8640	10900	13200	13300	11600	10800	6480	440.0	.00
6	5870	5980	7130	8690	10900	13300	13300	11500	10600	6280	340.0	.00
7	5870	6040	7180	8740	11000	13400	13300	11400	10500	6040	310.0	.00
8	5850	6100	7210	8800	11100	13400	13300	11300	10200	5850	280.0	.00
9	5850	6180	7260	8850	11200	13400	13200	11300	10200	5600	310.0	.00
10	5850	6220	7310	8910	11200	13400	13200	11300	10300	5400	150.0	.00
11	5840	6250	7340	8980	11300	13300	13200	11300	10400	5210	80.00	.00
12	5840	6290	7380	9040	11400	13300	13100	11300	10500	4970	50.00	.00
13	5820	6340	7420	9100	11500	13200	13100	11400	10400	4770	50.00	.00
14	5810	6370	7460	9170	11600	13200	13100	11400	10100	4330	50.00	.00
15	5790	6400	7510	9230	11700	13200	13100	11400	9740	3940	50.00	.00
16	5770	6450	7560	9300	11700	13100	13000	11400	9390	3710	30.00	.00
17	5740	6500	7610	9380	11800	13200	13100	11500	9070	3550	30.00	.00
18	5700	6550	7650	9440	11900	13200	13200	11600	8690	3400	30.00	.00
19	5650	6590	7700	9520	12000	13200	13200	11600	8390	3020	.00	.00
20	5620	6640	7750	9600	12000	13200	13100	11700	8200	2590	.00	.00
21	5600	6700	7800	9660	12100	13200	13100	11700	8040	2450	.00	.00
22	5570	6750	7830	9780	12400	13200	12900	11700	7910	2280	.00	.00
23	5540	6800	7860	9870	12500	13200	12900	11700	7800	2110	.00	.00
24	5520	6820	7960	9950	12600	13200	12800	11700	7720	1910	.00	.00
25	5520	6820	7990	10100	12700	13100	12800	11700	7640	1690	.00	.00
26	5490	6830	8000	10100	12700	13200	12800	11600	7650	1570	.00	.00
27	5490	6850	8050	10200	12800	13100	12800	11400	7690	1410	.00	.00
28	5510	6860	8050	10300	12900	13200	12700	11200	7640	1310	.00	.00
29	5550	6880	8100	10400	---	13100	12700	11000	7510	1150	.00	.00
30	5590	6890	8150	10400	---	13200	12700	10800	7350	1040	.00	.00
31	5600	---	8210	10500	---	13200	---	10700	---	940	.00	---
MAX	5900	6890	8210	10500	12900	13400	13300	12600	11000	7080	840.0	.00
MIN	5490	5650	6930	8310	10600	13000	12700	10700	7350	940	.00	.00
(†)	4975.91	4976.73	4977.56	4978.99	4980.46	4980.65	4980.37	4979.12	4977.02	4972.91	4972.07	4971.35
(‡)	-300	+1290	+1320	+2290	+2380	+310	-460	-2020	-3360	-6410	-940	0

CAL YR 1976 MAX 50000 MIN 5490 ‡ -28270
WTR YR 1977 MAX 13400 MIN .00 ‡ -5900

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

10297500 WEST WALKER RIVER AT HOYE BRIDGE, NEAR WELLINGTON, NV

LOCATION.--Lat 38°43'40", long 119°25'40", in NE¼SE¼ sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank 20 ft (6 m) upstream from Hoye Bridge, 2 mi (3 km) upstream from head of Saroni Canal, and 4 mi (6 km) southwest of Wellington.

DRAINAGE AREA.--533 mi^2 (1,380 km^2).

PERIOD OF RECORD.--May to August 1910 (published as West Walker River near Wellington), July 1920 to September 1923, March 1924 to August 1925, October 1925 to September 1932, October 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft (1,518 m), from topographic map. May to August 1910, nonrecording gage at same site at different datum. July 1, 1920, to Sept. 30, 1923, water-stage recorder at site 3 mi (5 km) downstream, 1 mi (2 km) downstream from Saroni Canal, at different datum, and supplemental nonrecording gage at Saroni Canal 1 mi (2 km) downstream from head. Mar. 1, 1924, to Sept. 30, 1932, water-stage recorder at same site at different datum.

REMARKS.--Records good except for winter months,which are poor. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Diversions for irrigation of about 10,500 acres (42.5 km^2) above station. Records include releases from Topaz Lake and all return flow from Antelope Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--30 years (1920-23, 1925-32, 1957-77), 228 ft^3/s (6.457 m^3/s), 165,200 acre-ft/yr (204 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,180 ft^3/s (61.7 m^3/s) June 6, 1922; minimum observed, 4.8 ft^3/s (0.14 m^3/s) Jan. 5, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 501 ft^3/s (14.2 m^3/s) June 19, gage height, 4.66 ft (1.420 m); minimum, 8.2 ft^3/s (0.23 m^3/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	14	22	22	24	14	23	197	224	164	63	17
2	38	13	23	22	24	14	24	201	268	99	60	17
3	38	13	23	23	24	14	24	224	335	89	58	16
4	39	14	23	22	24	14	24	216	377	84	56	16
5	39	20	23	23	24	14	24	138	401	80	54	17
6	39	21	23	20	24	14	24	112	396	100	52	23
7	39	21	23	17	25	13	31	90	391	138	48	22
8	39	22	22	18	24	29	35	80	377	114	44	23
9	38	22	23	20	24	45	44	76	329	108	31	22
10	39	22	23	28	18	47	46	75	294	115	30	22
11	39	22	23	28	16	48	47	75	288	106	29	24
12	39	23	23	25	16	46	47	80	288	103	23	23
13	38	23	23	23	16	47	47	80	280	93	18	24
14	38	22	23	23	15	47	48	76	300	136	14	26
15	38	23	23	22	15	44	49	75	307	121	11	25
16	38	24	23	21	15	29	49	70	294	114	10	25
17	39	24	23	21	15	29	49	69	286	96	11	25
18	39	24	23	21	15	29	54	68	276	88	16	26
19	39	24	23	21	15	29	99	67	286	77	21	26
20	39	24	23	22	15	29	100	68	221	104	22	25
21	38	24	22	23	16	31	99	67	196	97	20	25
22	37	24	22	23	16	30	99	91	158	96	19	27
23	36	24	22	24	17	30	98	98	127	96	17	27
24	34	25	22	24	16	31	97	136	106	86	14	27
25	33	25	22	24	15	31	100	130	83	81	9.4	26
26	31	24	22	24	15	31	135	136	85	76	10	26
27	28	25	22	24	14	28	135	170	80	80	11	25
28	26	24	22	24	14	24	135	152	108	80	12	23
29	25	24	22	24	---	24	157	150	119	74	13	22
30	26	23	22	24	---	24	180	149	145	71	14	20
31	22	---	22	24	---	23	---	158	---	65	14	---
TOTAL	1108	657	700	704	511	902	2123	3574	7425	3031	824.4	692
MEAN	35.7	21.9	22.6	22.7	18.3	29.1	70.8	115	248	97.8	26.6	23.1
MAX	39	25	23	28	25	48	180	224	401	164	63	27
MIN	22	13	22	17	14	13	23	67	80	65	9.4	16
AC-FT	2200	1300	1390	1400	1010	1790	4210	7090	14730	6010	1640	1370

CAL YR 1976 TOTAL 43319.0 MEAN 118 MAX 519 MIN 13 AC-FT 85920
WTR YR 1977 TOTAL 22251.4 MEAN 61.0 MAX 401 MIN 9.4 AC-FT 44140

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE¼SW¼ sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank 0.5 mi (0.8 km) upstream from Wilson Canyon and 3 mi (5 km) southeast of Hudson.

DRAINAGE AREA.--964 mi² (2,497 km²).

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to current year. August 1914 to May 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m), from topographic map. Prior to May 1921, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

REMARKS.--Records good except those for winter months,which are fair. Flow regulated by off-channel storage in Topaz Lake since Jan. 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--40 years (1914-24, 1947-77), 188 ft³/s (5.324 m³/s), 136,200 acre-ft/yr (168 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) Dec. 24, 1955, gage height, 7.42 ft (2.262 m), from floodmarks; minimum, 3.8 ft³/s (0.11 m³/s) Jan. 22, 1962, but may have been less during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 332 ft³/s (9.40 m³/s) June 30, gage height, 2.07 ft (0.631 m); minimum, 20 ft³/s (0.59 m³/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	39	32	36	36	30	35	174	118	118	70	25
2	45	36	34	35	36	30	37	180	156	91	73	28
3	45	36	34	35	35	30	40	193	185	73	69	27
4	45	35	35	34	35	30	40	197	217	65	68	27
5	42	34	34	34	34	31	41	155	239	63	74	26
6	40	33	34	32	34	31	41	96	242	61	72	27
7	39	32	34	32	34	31	41	91	233	76	67	30
8	39	32	33	32	34	31	40	81	230	72	64	30
9	38	32	35	34	34	44	43	75	205	58	51	31
10	39	32	35	34	34	56	46	68	185	57	41	31
11	39	32	34	32	32	58	50	70	180	57	43	31
12	39	32	34	34	32	61	55	78	178	47	40	33
13	38	33	34	34	31	64	58	73	170	46	37	33
14	38	33	34	34	31	66	60	75	174	66	32	34
15	38	33	34	34	31	68	62	76	185	87	28	36
16	39	34	34	34	32	64	62	64	193	71	25	37
17	40	33	34	34	32	62	60	68	195	58	23	38
18	42	33	34	34	30	61	58	67	199	53	22	37
19	45	33	34	34	30	60	54	71	219	40	22	38
20	44	33	33	32	29	58	52	64	201	47	23	36
21	48	34	34	32	32	57	50	48	182	62	24	34
22	47	33	32	34	34	57	52	52	154	52	23	34
23	48	33	32	34	34	56	51	61	118	57	23	35
24	48	34	34	34	32	55	58	73	97	49	23	35
25	48	34	34	35	32	54	63	64	77	44	23	35
26	50	34	34	35	31	52	76	63	58	52	24	35
27	47	34	34	35	31	52	111	81	60	52	24	36
28	42	32	35	35	31	49	120	90	61	58	24	35
29	43	32	35	35	---	40	128	104	69	69	24	35
30	44	32	36	35	---	39	158	104	107	69	24	35
31	45	---	36	36	---	36	---	98	---	69	25	---
TOTAL	1329	1002	1055	1054	913	1513	1842	2854	4887	1939	1205	984
MEAN	42.9	33.4	34.0	34.0	32.6	48.8	61.4	92.1	163	62.5	38.9	32.8
MAX	50	39	36	36	36	68	158	197	242	118	74	38
MIN	38	32	32	32	29	30	35	48	58	40	22	25
AC-FT	2640	1990	2090	2090	1810	3000	3650	5660	9690	3850	2390	1950

CAL YR 1976 TOTAL 34791 MEAN 95.1 MAX 343 MIN 32 AC-FT 69010
WTR YR 1977 TOTAL 20577 MEAN 56.4 MAX 242 MIN 22 AC-FT 40810

10300600 WALKER RIVER NEAR MASON, NV

LOCATION.--Lat 38°55'11", long 119°11'20", in SW¼NE¼ sec.9, T.12 N., R.25 E., Lyon County, Hydrologic Unit 16050303, on right bank 50 ft (15 m) downstream from bridge, 2 mi (3 km) south of Mason, and 5 mi (8 km) south-southwest of Yerington.

DRAINAGE AREA.--2,400 mi² (6,200 km²), approximately.

PERIOD OF RECORD.--May 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,550 ft³/s (43.9 m³/s) June 9, 1975, gage height, 8.10 ft (2.469 m); minimum, 30 ft³/s (0.85 m³/s) Mar. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 340 ft³/s (9.63 m³/s) June 30, gage height, 5.48 ft (1.670 m); minimum, 30 ft³/s (0.85 m³/s) Mar. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	73	46	54	62	46	43	153	108	173	77	40
2	62	67	44	56	62	44	43	164	149	155	73	43
3	62	62	46	59	64	39	40	168	170	123	75	42
4	62	57	47	52	66	37	38	182	211	105	71	40
5	64	56	48	48	67	36	38	170	234	87	81	39
6	57	54	48	48	66	36	39	117	248	71	96	38
7	53	51	51	48	66	32	40	96	242	81	105	37
8	53	48	50	48	62	31	40	100	245	96	103	39
9	54	44	50	49	61	32	42	100	224	77	91	38
10	59	43	48	49	59	35	39	83	208	66	67	39
11	57	42	49	49	59	54	44	69	186	62	66	38
12	51	40	50	49	57	64	46	81	180	54	62	34
13	50	40	49	49	56	62	44	83	180	50	64	35
14	51	40	48	50	53	66	48	79	180	53	61	37
15	56	42	48	52	50	69	48	83	186	75	54	38
16	64	42	48	51	47	67	50	79	196	71	50	38
17	64	44	48	54	46	61	44	75	196	71	43	42
18	66	44	47	57	46	62	40	75	194	77	43	46
19	64	44	47	61	44	66	39	79	226	73	42	47
20	59	46	47	62	44	66	42	79	251	110	42	50
21	64	50	47	75	44	66	43	59	226	137	50	53
22	71	48	47	73	47	62	50	54	203	139	61	54
23	81	47	49	73	50	54	54	62	160	114	93	56
24	81	47	52	71	53	53	61	73	123	89	51	56
25	81	46	49	71	54	51	57	73	93	77	44	54
26	83	42	48	67	53	48	71	69	69	83	40	54
27	77	42	47	67	47	48	110	77	71	114	37	54
28	69	48	46	62	44	56	119	93	77	123	38	54
29	69	48	48	61	---	61	123	100	79	114	38	54
30	71	47	48	62	---	47	135	108	97	112	39	53
31	73	---	51	62	---	46	---	103	---	85	40	---
TOTAL	1985	1444	1491	1789	1529	1597	1670	2986	5212	2917	1897	1342
MEAN	64.0	48.1	48.1	57.7	54.6	51.5	55.7	96.3	174	94.1	61.2	44.7
MAX	83	73	52	75	67	69	135	182	251	173	105	56
MIN	50	40	44	48	44	31	38	54	69	50	37	34
AC-FT	3940	2860	2960	3550	3030	3170	3310	5920	10340	5790	3760	2660

CAL YR 1976 TOTAL 36905 MEAN 101 MAX 281 MIN 40 AC-FT 73200
WTR YR 1977 TOTAL 25859 MEAN 70.8 MAX 251 MIN 31 AC-FT 51290

10301500 WALKER RIVER NEAR WABUSKA, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 39°09'10", long 119°05'50", in SE¼NW¼ sec.20, T.15 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on left bank 600 ft (180 m) upstream from timber bridge at Julian Ranch, 1.8 mi (2.9 km) downstream from Southern Pacific Railroad bridge, 4.6 mi (7.4 km) east of Wabuska, and 16 mi (26 km) upstream from Weber Dam.

DRAINAGE AREA.--2,600 mi^2 (6,700 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1902 to December 1904, January 1905 to July 1908 (fragmentary), January 1920 to September 1935, January 1939 to current year. Monthly discharge only for some periods published in WSP 1734.

REVISED RECORDS.--WSP 1314: 1923 (M). WSP 1634: 1904.

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m), from topographic map. July 22, 1902, to July 31, 1908, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. Jan. 15, 1920, to Sept. 30, 1929, nonrecording gage or water-stage recorder at several sites near present site at various datums; Oct. 1, 1929, to Sept. 30, 1935, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum. January 1939 to September 1958, nonrecording gage on bridge 300 ft (90 m) downstream at datum 1.19 ft (0.363 m) higher.

REMARKS.--Records good except those for period of no gage height record, Nov. 27 to Feb. 13,which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm^3).

AVERAGE DISCHARGE.--52 years (1902-4, 1920-24, 1925-35, 1939-41, 1942-43, 1944-77), 155 ft^3/s (4.390 m^3/s), 112,300 acre-ft/yr (138 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,280 ft^3/s (92.9 m^3/s) July 10, 11, 1906, gage height, 5.90 ft (1.798 m), site and datum then in use; no flow at times in 1924, 1925, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft^3/s (4.9 m^3/s) June 21, gage height, 4.18 ft (1.274 m); minimum, 1.3 ft^3/s (0.04 m^3/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTObeR 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	19	15	27	26	29	11	47	23	20	51	25
2	14	24	17	29	27	23	13	53	14	37	32	28
3	14	34	18	31	28	22	10	22	12	36	16	29
4	14	29	19	32	29	13	14	27	21	20	15	24
5	12	27	20	31	28	9.0	18	45	16	16	14	20
6	9.8	21	20	29	27	8.1	23	32	21	8.0	20	23
7	7.5	21	19	28	27	9.5	26	33	32	5.3	39	23
8	5.7	19	18	28	27	7.2	25	27	23	5.7	46	23
9	5.4	12	18	27	28	9.0	26	30	27	5.3	54	25
10	5.1	12	18	29	28	9.0	24	36	30	8.4	48	21
11	5.1	12	18	30	29	13	23	32	32	7.5	29	18
12	5.1	13	18	32	30	8.6	29	32	28	7.5	25	17
13	4.8	13	17	35	32	7.2	30	30	17	4.7	22	24
14	4.4	18	17	40	35	8.6	32	27	12	3.0	27	27
15	4.4	24	18	36	36	11	33	29	11	1.5	28	25
16	4.4	19	18	32	34	10	34	31	13	3.4	26	29
17	5.2	17	16	28	32	21	30	30	21	3.0	20	31
18	4.9	15	18	29	32	14	27	33	26	4.7	22	30
19	4.8	20	19	29	32	9.5	24	36	46	7.4	27	27
20	4.5	16	20	31	34	7.7	27	39	102	13	24	29
21	4.5	20	21	32	35	6.8	25	35	150	42	24	29
22	5.2	15	23	31	38	6.0	26	30	120	64	29	28
23	7.6	16	23	30	39	6.0	24	28	94	65	42	29
24	8.9	20	23	30	39	6.0	26	18	67	44	56	27
25	12	20	23	30	41	7.2	26	18	39	51	32	30
26	12	18	25	29	36	6.8	22	15	22	59	23	32
27	14	16	25	28	32	5.3	23	13	13	81	18	34
28	19	14	25	26	30	7.7	28	16	8.9	105	19	35
29	15	14	24	25	---	10	43	23	7.8	97	21	36
30	14	14	24	27	---	11	47	29	7.5	92	23	35
31	19	---	25	26	---	9.5	---	31	---	79	22	---
TOTAL	279.3	552	622	927	891	331.7	769	927	1056.2	996.4	894	813
MEAN	9.01	18.4	20.1	29.9	31.8	10.7	25.6	29.9	35.2	32.1	28.8	27.1
MAX	19	34	25	40	41	29	47	53	150	105	56	36
MIN	4.4	12	15	25	26	5.3	10	13	7.5	1.5	14	17
AC-FT	554	1090	1230	1840	1770	658	1530	1840	2090	1980	1770	1610

CAL YR 1976 TOTAL 17481.2 MEAN 47.8 MAX 144 MIN 4.4 AC-FT 34670
WTR YR 1977 TOTAL 9058.6 MEAN 24.8 MAX 150 MIN 1.5 AC-FT 17970

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1960 to current year.
CHEMICAL ANALYSES: October 1968 to September 1969, daily (composited) and monthly; October 1969 to current year, monthly.
SPECIFIC CONDUCTANCES: October 1968 to September 1976, once-daily; October 1976 to current year, monthly.
BIOLOGICAL AND MICROBIOLOGICAL DATA: October 1974 to current year, monthly.
WATER TEMPERATURES: February 1960 to September 1963, occasional; October 1963 to September 1968, monthly; October 1968 to September 1976, once-daily; October 1976 to current year, monthly.
SEDIMENT DATA: October 1973 to current year, monthly.

REMARKS.--Inflow from two drainage ditches enters stream less than a mile (1.6 km) above sampling site. Because inflow and streamflow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous either chemically or thermally. This doubtless is responsible for some variation shown by daily specific-conductance and temperature data. Detailed sampling information is available from U.S. Geol. Survey office, Carson City, Nev.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 792 micromhos Dec. 12, 1972; minimum, 183 micromhos June 26, 1969.
WATER TEMPERATURES: Maximum, 36.5°C July 28, 1961; minimum, freezing point on several days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,720 mg/L Mar. 27, 1975; minimum, 19 mg/L Oct. 8, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
08...	1200	5.5	581	8.4	19.0	9	37	24	--	--	--
DEC											
14...	1215	17	656	8.3	1.5	25	7	B100	170	49	11
JAN											
14...	1230	E40	609	8.2	1.0	20	4	180	--	--	--
FEB											
14...	1210	37	605	8.6	8.5	15	0	160	--	--	--
MAR											
10...	1045	8.5	760	8.6	6.5	15	0	100	200	56	14
APR											
13...	0950	29	637	8.2	11.0	25	0	190	--	--	--
MAY											
06...	0930	28	469	--	7.0	--	--	--	--	--	--
11...	1215	32	521	8.4	14.5	20	27	180	--	--	--
JUN											
14...	1030	10	520	8.1	21.5	25	20	100	120	36	8.3
28...	0805	9.0	566	--	--	--	--	--	--	--	--
JUL											
15...	0815	1.3	639	8.0	19.5	25	21	220	150	42	10
22...	1120	66	372	--	24.0	--	--	--	--	--	--
26...	1150	59	400	--	23.0	--	--	--	--	--	--
AUG											
01...	0955	52	381	--	20.5	--	--	--	--	--	--
11...	1120	28	460	8.3	24.0	45	100	200	130	40	7.8
19...	1100	27	464	--	24.5	--	--	--	--	--	--
SEP											
08...	0940	23	445	8.0	17.0	100	130	8670	100	29	6.7
21...	1040	30	452	--	12.5	--	--	--	--	--	--

B: NON-IDEAL COLONY COUNT.
E: ESTIMATED.

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	72	2.4	5.6	258	0	92	24	1.0	30	428	412
JAN											
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
10...	95	2.9	6.2	274	0	130	41	1.2	29	515	508
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	63	2.5	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
15...	80	2.9	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
11...	50	1.9	5.0	190	0	53	22	.9	25	285	298
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
08...	53	2.3	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT										
08...	--	.01	.00	.00	--	.42	--	.43	.13	--
DEC										
14...	19.6	.43	.01	.00	.00	1.1	.79	1.5	.20	.09
JAN										
14...	--	.71	.01	.02	--	.46	--	1.2	.17	--
FEB										
14...	--	.45	.01	.06	--	.11	--	.63	.15	--
MAR										
10...	11.8	.05	.00	.04	.01	.44	.45	.53	.15	.10
APR										
13...	--	.07	.01	.11	--	.45	--	.64	.17	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
11...	--	.15	.01	.08	--	.22	--	.46	.19	--
JUN										
14...	--	.01	.01	.05	--	.94	--	1.0	.21	--
28...	--	--	--	--	--	--	--	--	--	--
JUL										
15...	--	.22	.01	.10	--	.26	--	.59	.09	--
22...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	--	--	--	--	--	--	--	--	--	--
11...	21.5	.02	.02	.03	.04	.66	.08	.73	.28	.10
19...	--	--	--	--	--	--	--	--	--	--
SEP										
08...	--	.06	.00	.08	--	.34	--	.48	.29	--
21...	--	--	--	--	--	--	--	--	--	--

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
DEC												
14...	1215	21	20	--	<10	0	0	0	<50	0	10	3
MAR												
10...	1045	24	24	--	<10	0	0	0	<50	1	<10	1
JUN												
14...	1030	--	--	500	--	--	--	--	--	--	--	--
JUL												
15...	0815	--	--	610	--	--	--	--	--	--	--	--
AUG												
11...	1120	22	21	410	<10	4	0	0	<50	0	50	3
SEP												
08...	0940	--	--	450	--	--	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC												
14...	3200	10	<100	1	200	30	.2	.0	0	0	10	10
MAR												
10...	1200	20	<100	0	330	230	.4	.0	0	0	10	0
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
11...	4500	60	<100	2	260	10	.0	.0	0	0	40	0
SEP												
08...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)
DEC												
14...	1300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
15...	0815	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC												
14...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 8,76	DEC 14,76	JAN 14,77	FEB 14,77	APR 13,77
TIME	1200	1215	1230	1210	0950
TOTAL CELLS/ML	700	1200	1800	1300	1800
DIVERSITY: DIVISION	0.6	1.1	0.9	0.6	0.7
.CLASS	0.6	1.1	0.9	0.6	0.7
..ORDER	0.9	1.4	1.0	0.8	1.2
...FAMILY	1.2	3.0	3.1	1.1	2.6
....GENUS	1.2	3.4	3.4	1.3	2.7

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	29	2	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	*	0	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	*	0	--	-	*	0	44	3	35	2
....OOCYSTIS	--	-	--	-	--	-	33	3	*	0
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	22	3	68	6	51	3	7	1	69	4
....TETRASTRUM	--	-	--	-	*	0	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	58	5	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	*	0	--	-	*	0	--	-	--	-
...PHACOTACEAE										
....PHACOTUS	--	-	*	0	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	*	0	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	*	0
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	5	1	23	2	13	1	11	1	240	13
....MELOSIRA	27	4	57	5	25	1	--	-	--	-
....STEPHANODISCUS	*	0	11	1	--	-	--	-	*	0
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	*	0	--	-	13	1	--	-	*	0
....COCCONEIS	11	2	11	1	38	2	--	-	12	1
....RHOICOSPHENIA	*	0	*	0	13	1	*	0	*	0
...CYMBELLACEAE										
....AMPHORA	*	0	--	-	--	-	*	0	*	0
....CYMBELLA	*	0	*	0	76	4	--	-	12	1
....EPITHEMIA	*	0	*	0	25	1	*	0	*	0
....RHOPALODIA	*	0	11	1	--	-	*	0	*	0
...DIATOMACEAE										
....DIATOMA	*	0	79	6	100	6	--	-	*	0
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	1000#	81	--	-
....FRAGILARIA	*	0	79	6	76	4	--	-	640#	35
....SYNEDRA	*	0	57	5	51	3	22	2	12	1
...GOMPHONEMATACEAE										
....GOMPHONEIS	--	-	--	-	--	-	--	-	*	0
....GOMPHONEMA	*	0	11	1	150	9	--	-	*	0
...NAVICULACEAE										
....ANOMOEONEIS	--	-	--	-	--	-	--	-	--	-
....CALONEIS	*	0	11	1	25	1	--	-	*	0
....DIPLONEIS	--	-	--	-	--	-	--	-	*	0
....GYROSIGMA	*	0	--	-	--	-	--	-	--	-
....NAVICULA	22	3	79	6	300#	17	--	-	370#	20
....NEIDIUM	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	*	0	11	1	--	-	--	-	12	1
....STAURONEIS	*	0	*	0	--	-	--	-	--	-
...NITZSCHIACEAE										
....CYLINDROTHECA	--	-	23	2	--	-	--	-	12	1
....DENTICULA	*	0	--	-	*	0	--	-	*	0
....HANTZSCHIA	*	0	--	-	25	1	--	-	--	-
....NITZSCHIA	550#	79	310#	25	350#	20	40	3	270	15
...SURIRELLACEAE										
....CYMATOPLEURA	*	0	--	-	--	-	--	-	*	0
....SURIRELLA	*	0	79	6	110	6	--	-	46	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 8,76	DEC 14,76	JAN 14,77	FEB 14,77	APR 13,77
TIME	1200	1215	1230	1210	0950
TOTAL CELLS/ML	700	1200	1800	1300	1800
DIVERSITY: DIVISION	0.6	1.1	0.9	0.6	0.7
.CLASS	0.6	1.1	0.9	0.6	0.7
..ORDER	0.9	1.4	1.0	0.8	1.2
...FAMILY	1.2	3.0	3.1	1.1	2.6
....GENUS	1.2	3.4	3.4	1.3	2.7

DATE	OCT 8,76		DEC 14,76		JAN 14,77		FEB 14,77		APR 13,77	
TIME	1200		1215		1230		1210		0950	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	45	4	--	-	--	-	*	0
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	270#	22	320#	18	--	-	58	3
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	60	9	--	-	--	-	--	-	35	2
....PHACUS	*	0	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	MAY 11,77	JUN 14,77	JUL 15,77	AUG 11,77
TIME	1215	1030	0815	1120
TOTAL CELLS/ML	3300	5000	7400	7500
DIVERSITY: DIVISION	1.0	0.7	1.1	1.0
.CLASS	1.0	0.7	1.1	1.0
..ORDER	1.6	0.7	1.7	1.7
...FAMILY	3.0	2.7	2.8	2.7
....GENUS	3.5	3.1	3.2	3.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	57	1	*	0
....OOCYSTIS	200	6	--	-	57	1	270	4
....SELENASTRUM	--	-	42	1	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	--	-	--	-	230	3	--	-
....SCENEDESMUS	--	-	--	-	910	12	2400#	32
....TETRASTRUM	--	-	--	-	--	-	270	4
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	49	1	--	-	--	-	140	2
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	390	12	--	-	1200#	16	890	12
....MELOSIRA	170	5	--	-	--	-	720	10
....STEPHANODISCUS	--	-	--	-	57	1	*	0
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	99	3	630	13	--	-	200	3
....RHOICOSPHENIA	--	-	84	2	--	-	*	0
...CYMBELLACEAE								
....AMPHORA	74	2	--	-	57	1	*	0
....CYMBELLA	--	-	42	1	57	1	--	-
....EPITHEMIA	--	-	--	-	57	1	*	0
....RHOPALODIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	84	2	--	-	68	1
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	84	2	--	-	1100	15
....SYNEDRA	200	6	170	3	400	5	*	0
...GOMPHONEMATACEAE								
....GOMPHONEIS	--	-	--	-	--	-	--	-
....GOMPHONEMA	150	4	250	5	510	7	200	3
...NAVICULACEAE								
....ANOMOEONEIS	--	-	--	-	--	-	*	0
....CALONEIS	--	-	--	-	--	-	--	-
....DIPLONEIS	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	790#	24	1600#	32	1500#	21	340	5
....NEIDIUM	200	6	290	6	170	2	*	0
....PINNULARIA	74	2	*	0	--	-	--	-
....STAURONEIS	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....CYLINDROTHECA	--	-	--	-	--	-	--	-
....DENTICULA	--	-	--	-	--	-	--	-
....HANTZSCHIA	--	-	--	-	--	-	--	-
....NITZSCHIA	300	9	760#	15	1300#	18	650	9
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	--	-	--	-
....SURIRELLA	150	4	210	4	--	-	100	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

QUAL'TATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	MAY 11,77	JUN 14,77	JUL 15,77	AUG 11,77
TIME	1215	1030	0815	1120
TOTAL CELLS/ML	3300	5000	7400	7500
DIVERSITY: DIVISION	1.0	0.7	1.1	1.0
.CLASS	1.0	0.7	1.1	1.0
..ORDER	1.6	0.7	1.7	1.7
...FAMILY	3.0	2.7	2.8	2.7
....GENUS	3.5	3.1	3.2	3.2

DATE	MAY 11,77		JUN 14,77		JUL 15,77		AUG 11,77	
TIME	1215		1030		0815		1120	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	--	-	--	-	800	11	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	250	5	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	440	13	500	10	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	25	1	--	-	--	-	*	0
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE1/	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT								
08...	1200	5.5	19	.28	--	--	--	--
DEC								
14...	1130	17	55	2.5	--	--	--	--
14...	1215	17	100	4.6	--	--	--	--
JAN								
14...	1230	E40	68	E11	--	--	--	--
FEB								
14...	1210	37	72	7.2	--	--	--	--
MAR								
10...	1045	8.5	39	.90	--	--	--	--
APR								
13...	0950	29	74	5.8	--	--	--	--
MAY								
11...	1215	32	58	5.0	83	86	95	100
JUN								
14...	1030	10	72	2.0	--	--	--	--
JUL								
15...	0815	1.3	57	.20	--	--	--	--
AUG								
11...	1120	28	158	12	--	--	--	--

E: ESTIMATED.

1. SEDIMENT SAMPLE COLLECTED SEPTEMBER 28, 1977, WAS NOT PROCESSED IN TIME FOR RESULT TO BE INCLUDED IN THIS REPORT. DATA ARE AVAILABLE FROM U.S. GEOLOGICAL SURVEY OFFICE, CARSON CITY, NV.

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°06'12", long 118°55'42", in NW¼SE¼ sec.2, T.14 N., R.27 E., Lyon County, Hydrologic Unit 16050303, on left bank, 5.5 mi (8.8 km) upstream from Weber Dam, about 11 mi (18 km) downstream from gage near Wabuska, and 12 mi (19 km) northwest of Schurz.

DRAINAGE AREA.--2,700 mi^2 (7,000 km^2), approximately.

WATER DISCHARGE RECORD

PERIOD OF RECORD.--June to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft (1,285 m) from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir and Topaz Reservoir, combined capacity, 101,900 acre-ft (126 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 124 ft^3/s (3.51 m^3/s) June 21, gage height, 5.34 ft (1.628 m); no flow July 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	5.4	50	14
2									---	23	38	17
3									---	31	22	19
4									---	23	14	17
5									---	12	13	12
6									---	8.2	13	12
7									---	3.5	27	15
8									---	2.5	38	14
9									---	2.2	44	15
10									---	2.3	45	14
11									---	2.7	31	8.7
12									---	2.5	22	8.3
13									19	1.7	19	9.8
14									16	1.1	18	11
15									9.8	.14	18	11
16									10	.00	19	13
17									11	.00	14	18
18									15	.00	12	19
19									21	.69	15	18
20									42	1.7	12	19
21									101	19	12	22
22									101	42	12	22
23									93	51	24	23
24									68	39	45	21
25									51	32	30	21
26									36	40	18	25
27									23	43	12	27
28									12	55	11	29
29									7.9	67	13	31
30									5.9	62	14	31
31									---	66	12	---
TOTAL									---	639.63	687	536.8
MEAN									---	20.6	22.2	17.9
MAX									---	67	50	31
MIN									---	.00	11	8.3
AC-FT									---	1270	1360	1060

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 1977.
CHEMICAL ANALYSES: June to September 1977, monthly.
SPECIFIC CONDUCTANCES AND WATER TEMPERATURES: June to September 1977, twice-monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 595 micromhos July 15, 1977; minimum, 386 micromhos Aug. 1, 1977.
WATER TEMPERATURES: Maximum, 26.0°C July 22, Aug. 11, 1977; minimum, 20.5°C June 28, July 15, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED BORON (B) (UG/L)
JUN										
14...	1200	19	526	24.5	130	37	9.2	65	2.5	510
28...	0910	13	582	20.5	--	--	--	--	--	--
JUL										
02...	1000	43	530	--	--	--	--	--	--	--
02...	1325	33	550	22.0	--	--	--	--	--	--
02...	1425	31	533	22.0	--	--	--	--	--	--
15...	0950	.63	595	22.5	150	42	9.8	74	2.7	530
22...	1310	43	416	26.0	--	--	--	--	--	--
AUG										
01...	1055	50	386	23.0	--	--	--	--	--	--
11...	1320	31	424	26.0	110	33	6.7	44	1.8	410
SEP										
08...	1125	17	467	21.0	100	30	6.9	56	2.4	460
21...	1255	23	449	16.5	--	--	--	--	--	--

10301750 WALKER RIVER AT DIVERSIONS ABOVE SCHURZ, NV

LOCATION.--Lat 39°00'51", long 118°51'37", in SE¼SW¼ sec.4, T.13 N., R.28 E., Lyon County, Hydrologic Unit 16050303, at diversions approximately 2 mi (3 km) downstream from Weber Reservoir.

DRAINAGE AREA.--2,900 mi^2 (7,500 km^2), approximately.

PERIOD OF RECORD.--May to September 1977.
CHEMICAL ANALYSES: June to September 1977, monthly.
SPECIFIC CONDUCTANCES: May to September 1977, twice-monthly.
WATER TEMPERATURES: June to September 1977, twice-monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 743 micromhos Sept. 8, 1977; minimum, 601 micromhos, Aug. 11, 1977.
WATER TEMPERATURES: Maximum, 27.0°C Aug. 1, 1977; minimum, 16.0°C Sept. 21, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED BORON (B) (UG/L)
MAY										
06...	1315	41	699	--	--	--	--	--	--	--
JUN										
14...	1250	6.0	678	22.0	170	48	11	89	3.0	530
28...	1105	18	687	21.0	--	--	--	--	--	--
JUL										
15...	1155	85	656	24.0	160	45	12	82	2.8	540
AUG										
01...	1445	56	612	27.0	--	--	--	--	--	--
11...	1455	41	601	26.5	150	43	10	77	2.7	510
SEP										
08...	1300	14	743	--	150	43	9.5	83	3.0	590
21...	1355	16	600	16.0	--	--	--	--	--	--

10302010 REESE RIVER CANYON NEAR SCHURZ, NV

LOCATION.--Lat 38°51'00", long 118°46'55", in NE¼NW¼ sec.6, T.11 N., R.29 E., Mineral County, Hydrologic Unit 16050303, on left bank at abandoned culvert on former U.S. Highway 95 and 6 mi (10 km) south of Schurz.

DRAINAGE AREA.--14 mi^2 (36 km^2), approximately.

PERIOD OF RECORD.--Water years 1963-66 (annual maximum), October 1966 to September 1977, discontinued as a continuous-record station; converted to a crest-stage partial-record station.

GAGE.--Flood-hydrograph recorder and crest-stage gage. Altitude of gage is 4,080 ft (1,244 m), from topographic map. October 1962 to September 1966, crest-stage gage at same site and datum.

REMARKS.--Records poor. No regulation above station.

AVERAGE DISCHARGE.--11 years, 0.028 ft^3/s (0.0008 m^3/s), 21 acre-ft/yr (25,900 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft^3/s (53.0 m^3/s) July 31, 1965, gage height, 9.25 ft (2.819 m), from high-water marks, based on indirect measurement, no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 10 ft^3/s (0.283 m^3/s) June 10, gage height, 6.39 ft (1.948 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.10	1.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.003	.033	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.10	1.0	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.2	2.0	.00	.00	.00

CAL YR 1976 TOTAL 15.80 MEAN .043 MAX 8.6 MIN .00 AC-FT 31
WTR YR 1977 TOTAL 1.10 MEAN .003 MAX 1.0 MIN .00 AC-FT 2.2

10308200 EAST FORK CARSON RIVER BELOW MARKLEEVILLE CREEK, NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'50", long 119°45'50", in SW¼NE¼ sec.15, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank 0.5 mi (0.8 km) downstream from Markleeville Creek and 1.5 mi (2.4 km) north-northeast of Markleeville.

DRAINAGE AREA.--276 mi² (715 km²).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (1,646 m), from topographic map. Prior to Oct. 1, 1967, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good, except those for winter periods which are poor. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--17 years, 341 ft³/s (9.66 m³/s), 247,100 acre-ft/yr (305 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) Jan. 31, 1963, gage height, 10.21 ft (3.112 m), present datum; minimum, 15 ft³/s (0.42 m³/s) Sept. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 586 ft³/s (16.6 m³/s) June 9, gage height, 3.69 ft (1.125 m), no peak above base of 1,300 ft³/s (36.8 m³/s); minimum, 15 ft³/s (0.42 m³/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	33	50	50	40	49	68	180	398	90	61	18
2	87	32	50	54	39	52	63	162	412	82	63	18
3	64	33	50	54	37	50	61	149	373	80	60	17
4	53	32	48	50	39	49	68	135	379	72	57	17
5	49	32	46	44	40	47	100	137	407	65	56	16
6	45	32	46	40	43	54	139	126	389	61	54	16
7	44	32	46	40	41	60	176	122	345	57	53	16
8	43	32	46	40	46	57	211	144	346	49	51	16
9	41	32	48	40	44	60	187	153	455	46	46	17
10	40	32	46	42	42	50	152	135	417	44	45	17
11	40	32	45	46	43	53	154	128	299	42	34	17
12	40	32	45	44	45	60	162	129	265	37	29	17
13	40	30	47	44	47	53	194	140	245	39	29	18
14	39	35	45	44	45	54	202	162	214	40	26	18
15	39	35	44	44	46	54	210	204	203	44	17	19
16	37	36	43	44	49	55	261	205	188	56	18	21
17	37	36	41	40	49	52	284	185	174	58	26	25
18	37	36	41	40	47	52	244	173	161	59	27	26
19	37	35	41	40	47	54	193	178	192	61	25	26
20	37	35	42	42	47	55	182	224	168	62	22	31
21	37	35	41	44	92	58	190	285	148	61	21	30
22	38	34	41	46	66	69	199	324	129	59	19	26
23	40	33	43	47	62	86	217	311	115	56	19	25
24	39	33	43	47	57	70	232	273	109	49	18	25
25	37	32	43	46	55	71	230	247	117	48	21	24
26	36	33	45	45	51	64	227	229	142	47	22	23
27	34	25	46	45	51	67	221	224	151	62	21	23
28	32	18	46	43	54	69	231	224	123	71	21	23
29	32	25	46	40	---	62	227	237	109	70	21	23
30	33	45	46	40	---	68	209	264	103	67	21	24
31	32	---	44	44	---	65	---	330	---	63	19	---
TOTAL	1285	977	1394	1369	1364	1819	5494	6119	7276	1797	1022	632
MEAN	41.5	32.6	45.0	44.2	48.7	58.7	183	197	243	58.0	33.0	21.1
MAX	87	45	50	54	92	86	284	330	455	90	63	31
MIN	32	18	41	40	37	47	61	122	103	37	17	16
AC-FT	2550	1940	2760	2720	2710	3610	10900	12140	14430	3560	2030	1250

CAL YR 1976 TOTAL 46080 MEAN 126 MAX 736 MIN 18 AC-FT 91400
WTR YR 1977 TOTAL 30548 MEAN 83.7 MAX 455 MIN 16 AC-FT 60590

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW¼NE¼ sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank 0.1 mi (0.2 km) downstream from Horseshoe Bend, 2 mi (3 km) east of Mud Lake Reservoir, 4.5 mi (7.2 km) downstream from Bryant Creek, and 7 mi (11 km) southeast of Gardnerville.

DRAINAGE AREA.--341 mi^2 (883 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1890 to December 1893, October 1900 to December 1906 (gage heights only August to December 1904 and July 1905 to December 1906), January 1908 to December 1910, June to October 1917, December 1924 to September 1928, June to September 1929, October 1935 to December 1937, May 1939 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,985.11 ft (1,519.462 m) above mean sea level (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi (3 km) of present site at various datums.

REMARKS.--Records good except those for winter periods, which are poor. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft (6.16 hm^3).

AVERAGE DISCHARGE.--51 years (1890-93, 1900-1903, 1908-10, 1925-28, 1935-37, 1939-77), 382 ft^3/s (11.0 m^3/s), 276,800 acre-ft/yr (341 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft^3/s (498 m^3/s) Dec. 23, 1955, gage height, 11.88 ft (3.621 m), from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of slope-area measurements at gage heights 9.66 ft (2.944 m) and 11.88 ft (3.621 m); minimum observed, 8 ft^3/s (0.23 m^3/s) Dec. 4-10, 19-23, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 638 ft^3/s (18.1 m^3/s) June 10, gage height, 2.29 ft (0.698 m), no peak above base of 1,300 ft^3/s (36.8 m^3/s); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 5-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	53	54	48	48	61	78	186	407	103	59	13
2	103	52	54	52	48	59	74	171	441	93	59	13
3	96	53	54	54	45	61	70	155	393	92	57	13
4	80	53	52	60	48	62	73	143	390	83	54	11
5	73	52	50	50	49	56	97	140	428	76	52	11
6	69	52	50	50	52	62	134	135	417	72	51	11
7	67	52	50	50	50	70	168	129	368	67	48	11
8	66	52	50	50	56	69	211	145	372	60	47	12
9	63	52	52	50	54	72	198	162	443	55	43	13
10	61	52	50	50	51	59	158	147	491	52	41	14
11	60	52	49	50	52	61	155	136	334	50	35	13
12	60	52	49	50	55	71	159	140	286	46	28	13
13	60	51	50	50	57	65	187	151	263	44	27	14
14	60	55	48	50	56	57	204	162	230	45	25	16
15	58	61	48	50	56	64	206	208	212	47	18	16
16	58	60	46	50	60	65	247	216	197	56	14	18
17	58	60	45	47	61	60	295	200	185	61	18	21
18	58	60	44	46	58	59	258	187	171	60	25	25
19	58	60	45	46	58	64	203	184	197	63	21	25
20	56	59	45	46	58	63	182	220	180	65	17	27
21	56	58	45	51	101	65	188	285	162	65	17	30
22	57	57	45	52	91	74	195	332	144	64	14	29
23	60	55	47	52	77	91	212	326	128	59	15	27
24	59	54	47	50	59	83	233	290	118	51	15	26
25	57	53	47	48	66	83	233	260	126	48	15	26
26	54	52	49	48	58	74	233	239	134	47	20	27
27	54	45	50	44	62	76	226	235	183	58	20	26
28	51	32	50	43	65	77	233	233	141	69	15	25
29	52	32	49	43	---	72	234	239	123	69	15	27
30	53	45	49	43	---	78	216	265	115	68	15	28
31	53	---	50	52	---	70	---	327	---	63	14	---
TOTAL	1946	1576	1513	1525	1651	2103	5560	6348	7779	1951	914	581
MEAN	62.8	52.5	48.8	49.2	59.0	67.8	185	205	259	62.9	29.5	19.4
MAX	103	61	54	60	101	91	295	332	491	103	59	30
MIN	51	32	44	43	45	56	70	129	115	44	14	11
AC-FT	3860	3130	3000	3020	3270	4170	11030	12590	15430	3870	1810	1150

CAL YR 1976 TOTAL 51087 MEAN 140 MAX 791 MIN 32 AC-FT 101300
WTR YR 1977 TOTAL 33447 MEAN 91.6 MAX 491 MIN 11 AC-FT 66340

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--July to September 1977

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUL					
01...	0945	104	18.0	51	14
28...	1100	71	20.5	12	2.3
AUG					
29...	1030	16	15.0	8	.35
SEP					
28...	0940	25	12.0	9	.61

10309100 EAST FORK CARSON RIVER AT MINDEN, NV

LOCATION.--Lat 38°56'48", long 119°46'45", in NE¼NE¼SW¼ sec. 31, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on right bank on downstream side of bridge on State Highway 88 and 1.0 mi (1.6 km) southwest of Minden.

DRAINAGE AREA.--392 mi² (1,015 km²), approximately.

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,710 ft (1,436 m), from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,960 ft³/s (83.8 m³/s) June 2, 1975, gage height, 10.49 ft (3.197 m); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 23, 24, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 204 ft³/s (5.8 m³/s) June 10, gage height, 3.50 ft (1.067 m); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.82	.82	1.3	1.8	.91	1.9	2.5	38	1.6	.46	.10
2	2.5	.82	.82	1.3	1.9	.73	1.6	2.5	49	1.6	.46	.10
3	2.5	.82	.82	1.8	1.9	.73	1.5	2.1	29	1.6	.46	.10
4	2.5	.82	.82	1.6	1.9	.73	1.5	1.9	21	1.6	.46	.10
5	2.4	.82	.82	1.6	1.9	.73	1.3	1.9	40	1.4	.46	.10
6	2.2	.82	.82	1.6	1.9	.73	1.9	1.8	43	1.3	.46	.10
7	1.6	.82	.82	1.6	1.9	.82	2.5	1.6	23	1.2	.46	.10
8	1.4	.82	.91	1.4	1.9	.91	2.9	3.3	21	.91	.46	.19
9	1.3	.82	1.2	1.4	1.9	1.0	1.0	7.2	49	.91	.46	.19
10	1.2	.82	1.2	1.4	1.9	1.0	.82	4.9	133	.82	.46	.19
11	1.0	.82	1.2	1.4	1.9	1.0	.64	3.7	42	.73	.46	.19
12	.91	.82	1.2	1.4	1.9	1.0	.64	2.9	14	.64	.46	.19
13	.91	.82	1.3	1.4	1.8	.91	.64	2.5	4.1	.55	.55	.19
14	.82	.82	1.3	1.4	1.8	.91	1.6	2.9	2.4	.55	.46	.10
15	.82	.82	1.3	1.4	1.8	.91	1.3	9.8	2.0	.55	.37	.19
16	.82	.82	1.3	1.4	1.9	.82	2.0	22	2.0	.46	.37	.19
17	.82	.82	1.3	1.4	1.9	.82	1.8	27	2.0	.46	.37	.19
18	.82	.82	1.3	1.4	1.9	.82	.82	14	2.2	.46	.37	.19
19	.73	.82	1.3	1.4	1.9	.82	.73	5.3	2.5	.46	.28	.19
20	.73	.82	1.3	1.6	1.9	.82	.73	12	2.5	.46	.28	.19
21	.73	.82	1.3	1.4	4.1	.82	.73	39	2.5	.46	.28	.19
22	.64	.82	1.3	1.6	21	.91	.73	49	2.4	.46	.28	.19
23	.64	.82	1.3	1.4	3.7	1.9	.82	42	2.0	.46	.28	.10
24	.64	.82	1.3	1.4	2.0	6.5	.73	19	2.0	.46	.28	.10
25	.73	.82	1.3	1.4	1.4	4.1	.73	3.7	2.0	.46	.28	.10
26	.73	.82	1.3	1.4	1.0	3.3	1.8	1.6	6.1	.46	.28	.10
27	.82	.82	1.3	1.6	.91	2.4	2.2	1.6	12	.46	.19	.10
28	.82	.82	1.3	1.6	.91	1.8	1.9	1.4	4.5	.46	.19	.10
29	.82	.82	1.3	1.6	---	1.8	2.4	.91	1.4	.46	.10	.10
30	.82	.82	1.3	1.6	---	1.8	2.5	.82	1.4	.46	.10	.10
31	.82	---	1.3	1.6	---	2.4	---	3.3	---	.46	.10	---
TOTAL	36.39	24.60	36.15	45.8	72.62	44.85	42.36	294.13	558.0	23.32	10.93	4.26
MEAN	1.17	.82	1.17	1.48	2.59	1.45	1.41	9.49	18.6	.75	.35	.14
MAX	2.5	.82	1.3	1.8	21	6.5	2.9	49	133	1.6	.55	.19
MIN	.64	.82	.82	1.3	.91	.73	.64	.82	1.4	.46	.10	.10
AC-FT	72	49	72	91	144	89	84	583	1110	46	22	8.4

CAL YR 1976 TOTAL 8309.11 MEAN 22.7 MAX 278 MIN .55 AC-FT 16480
WTR YR 1977 TOTAL 1193.41 MEAN 3.27 MAX 133 MIN .10 AC-FT 2370

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank 0.3 mi (0.5 km) downstream from bridge on State Highway 88-89, 0.6 mi (1.0 km) southwest of Woodfords, and 3.8 mi (6.1 km) downstream from Willow Creek.

DRAINAGE AREA.--65.6 mi^2 (169.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to May 1907, 1910-11 (fragmentary), October 1938 to current year. January 1890 to March 1892, June 1907 to September 1920 (except parts of 1910-11), at site 0.7 mi (1.1 km) downstream; records not equivalent owing to diversions for irrigation. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,756 m), from river-profile map. Prior to Oct. 1, 1938, nonrecording gage at about the same site at different datum. Oct. 1, 1938, to Nov. 11, 1958, water-stage recorder at same site at datum 1.02 ft (0.311 m) lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft (46 m) downstream at datum 3.06 ft (0.933 m) lower.

REMARKS.--Records good. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft (1.85 hm^3).

AVERAGE DISCHARGE.--46 years (1900-1907, 1938-77), 111 ft^3/s (3.144 m^3/s), 80,420 acre-ft/yr (99.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,890 ft^3/s (138 m^3/s) Feb. 1, 1963, gage height, 9.0 ft (2.74 m), on basis of slope-area measurement of peak flow; minimum, about 5 ft^3/s (0.14 m^3/s) Dec. 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft (2.44 m), present datum, from floodmarks, discharge, 3,500 ft^3/s (99.1 m^3/s), by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 318 ft^3/s (9.01 m^3/s) June 10, gage height, 2.56 ft (0.780 m), no peak above base of 500 ft^3/s (14.2 m^3/s); minimum daily, 5.3 ft^3/s (0.15 m^3/s) Sept. 2, 5-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	15	13	14	17	20	49	87	18	18	5.6
2	28	15	15	14	13	16	21	48	98	18	39	5.3
3	21	15	15	13	13	17	22	42	98	19	34	6.1
4	19	15	15	13	13	17	32	37	80	17	24	5.8
5	18	16	14	14	13	16	49	37	80	17	19	5.3
6	17	16	14	14	13	17	71	36	78	36	16	5.3
7	17	16	14	14	14	17	89	39	75	34	9.2	5.3
8	16	16	14	14	15	18	92	40	71	34	8.2	5.3
9	16	16	15	14	15	17	68	43	107	33	7.9	5.6
10	16	16	14	14	15	16	60	40	146	22	7.6	5.6
11	15	16	14	14	15	17	62	43	138	15	7.3	5.6
12	15	16	14	14	16	18	71	46	51	13	7.0	5.6
13	15	15	15	14	16	17	91	51	33	12	7.0	5.8
14	15	18	14	14	17	16	85	62	32	12	6.7	6.1
15	15	20	14	14	18	17	80	70	40	11	7.9	6.1
16	15	20	13	14	19	17	91	70	63	10	7.9	6.4
17	15	20	13	13	19	17	104	62	63	9.2	12	7.0
18	15	20	13	13	19	16	90	63	59	8.9	12	7.0
19	15	20	13	13	20	17	76	62	47	12	11	7.3
20	15	19	13	13	20	17	76	66	35	25	10	7.6
21	15	19	13	14	21	19	61	78	29	31	8.9	7.6
22	16	18	14	15	18	22	60	84	31	29	7.3	7.9
23	17	18	14	15	17	24	65	86	61	29	7.0	7.9
24	16	18	14	15	16	21	67	75	41	19	6.7	7.6
25	16	18	14	15	17	21	71	63	46	12	6.7	7.3
26	15	17	14	16	16	20	60	59	28	11	7.0	7.3
27	15	15	14	16	17	22	65	59	30	12	6.7	7.6
28	16	10	14	15	18	21	56	52	23	12	5.8	10
29	15	10	14	14	---	20	57	54	21	11	5.6	13
30	15	14	14	14	---	20	49	59	19	9.6	5.6	14
31	15	---	14	15	---	18	---	73	---	9.2	5.6	---
TOTAL	506	497	434	437	457	565	1961	1748	1810	560.9	344.6	209.9
MEAN	16.3	16.6	14.0	14.1	16.3	18.2	65.4	56.4	60.3	18.1	11.1	7.00
MAX	28	20	15	16	21	24	104	86	146	36	39	14
MIN	15	10	13	13	13	16	20	36	19	8.9	5.6	5.3
AC-FT	1000	986	861	867	906	1120	3890	3470	3590	1110	684	416

CAL YR 1976 TOTAL 14085.4 MEAN 38.5 MAX 168 MIN 9.3 AC-FT 27940
WTR YR 1977 TOTAL 9530.4 MEAN 26.1 MAX 146 MIN 5.3 AC-FT 18900

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977*

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
APR								
13...	0815	E83	67	7.5	4.5	2	9.6	25
MAY								
27...	1010	64	62	--	6.5	--	--	--
JUN								
27...	1145	30	74	--	18.0	--	--	--
JUL								
28...	0835	11	91	--	10.0	--	--	--
AUG								
30...	0900	5.8	93	--	11.5	--	--	--
SEP								
21...	0830	E8.0	94	7.7	6.5	0	9.4	35
29...	1015	14	93	--	10.0	--	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
APR								
13...	6.6	2.1	2.8	.2	34	0	.0	50
MAY								
27...	--	--	--	--	--	--	--	--
JUN								
27...	--	--	--	--	--	--	--	--
JUL								
28...	--	--	--	--	--	--	--	--
AUG								
30...	--	--	--	--	--	--	--	--
SEP								
21...	12	1.2	5.0	.4	51	0	.1	86
29...	--	--	--	--	--	--	--	--

* DATA FROM CALIF. DEPT. OF WATER RESOURCES.
E: ESTIMATED.

10310400 DAGGETT CREEK NEAR GENOA, NV

LOCATION.--Lat 38°57'55", long 119°50'55", in SW¼NE¼ sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank in Haines Canyon, 0.55 mi (0.88 km) upstream from Foothill Road, and 3.5 mi (5.6 km) south-southwest of Genoa.

DRAINAGE AREA.--3.82 mi² (9.89 km²).

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft (1,554 m), from topographic map.

REMARKS.--Records good. No diversions above station. Intermittent pumping of effluent from Lake Tahoe basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971.

AVERAGE DISCHARGE.--12 years, 2.08 ft³/s (0.0589 m³/s), 1,510 acre-ft/yr (1.86 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63 ft³/s (1.78 m³/s) Aug. 5, 1971, gage height, 2.78 ft (0.847 m), from floodmarks, from rating curve extended above 6 ft³/s (0.17 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.50 ft³/s (0.014 m³/s) July 6, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23 ft³/s (0.65 m³/s) Feb. 21, gage height, 1.36 ft (0.415 m); minimum, 0.59 ft³/s (0.017 m³/s) July 23 to Aug. 7, 9, 10, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.1	1.2	.88	1.2	1.0	1.2	1.2	.95	.91	.65	.81
2	1.0	1.1	1.2	.90	1.2	1.0	1.2	1.2	.95	.99	.65	.81
3	.99	1.2	1.1	.90	1.2	1.0	1.2	1.2	.93	1.1	.65	.80
4	.95	1.2	1.1	.90	1.3	1.0	1.2	1.2	.92	.94	.65	.79
5	.90	1.2	1.1	.90	1.3	1.0	1.3	1.2	.90	.98	.65	.78
6	.90	1.2	1.1	.86	1.3	1.0	1.3	1.2	.93	.99	.65	.79
7	.90	1.1	1.1	.81	1.3	1.0	1.3	1.2	1.0	1.0	.72	.78
8	.87	1.2	1.1	.81	1.3	1.0	1.3	1.2	1.0	.90	.72	.80
9	.88	1.2	1.0	.81	1.2	1.1	1.2	1.2	1.5	.81	.72	.78
10	.90	1.3	1.0	.84	1.2	1.0	1.2	1.2	1.1	.81	.71	.79
11	.90	1.3	1.0	.95	1.2	1.0	1.2	1.2	.98	.81	.74	.80
12	.93	1.3	1.0	.90	1.2	1.0	1.2	1.3	.99	.81	.89	.81
13	.93	1.4	.99	.90	1.2	1.0	1.2	1.3	.97	.81	.77	.82
14	.89	1.4	.92	.90	1.2	.98	1.2	1.2	.96	.81	.76	.82
15	.91	1.1	.90	.90	1.1	1.1	1.2	1.2	.96	.81	.71	.77
16	.93	1.2	.90	.90	1.1	1.1	1.2	1.3	.96	.81	.73	.77
17	.93	1.3	.90	.90	1.1	1.1	1.2	1.3	1.0	.81	.81	.78
18	.94	1.3	.90	.91	1.1	1.1	1.2	1.3	.90	.81	.81	.79
19	1.1	1.4	.90	1.1	1.1	1.1	1.2	1.3	1.1	.72	.78	.86
20	1.1	1.4	.90	1.1	1.1	1.1	1.2	1.2	.97	.81	.77	.90
21	1.1	1.3	.90	1.1	2.5	1.1	1.2	1.3	1.0	.81	.77	.86
22	1.1	1.3	.90	1.1	1.1	1.1	1.2	1.3	1.1	.81	.74	.85
23	1.2	1.3	.90	1.1	1.1	1.1	1.2	1.1	1.5	.72	.78	.84
24	1.2	1.2	.90	1.1	1.1	1.1	1.2	1.1	1.3	.72	.82	.84
25	1.2	1.3	.90	1.1	1.1	1.1	1.2	1.1	1.0	.72	.83	.84
26	1.2	1.3	.90	1.1	1.1	1.1	1.2	1.1	1.0	.72	.82	.85
27	1.2	1.2	.90	1.2	1.1	1.1	1.2	1.0	1.0	.72	.82	.83
28	1.2	1.2	.90	1.2	1.1	1.1	1.2	1.1	1.0	.72	.81	.83
29	1.2	1.2	.90	1.2	---	1.1	1.2	1.1	1.0	.72	.79	.75
30	1.2	1.2	.90	1.2	---	1.2	1.2	.98	.92	.65	.76	.87
31	1.2	---	.90	1.2	---	1.2	---	.95	---	.65	.80	---
TOTAL	33.05	37.4	30.21	30.67	34.1	32.98	36.4	36.73	30.79	25.40	23.28	24.41
MEAN	1.07	1.25	.97	.99	1.22	1.06	1.21	1.18	1.03	.82	.75	.81
MAX	2.2	1.4	1.2	1.2	2.5	1.2	1.3	1.3	1.5	1.1	.89	.90
MIN	.87	1.1	.90	.81	1.1	.98	1.2	.95	.90	.65	.65	.75
AC-FT	66	74	60	61	68	65	72	73	61	50	46	48

CAL YR 1976 TOTAL 582.47 MEAN 1.59 MAX 2.9 MIN .81 AC-FT 1160
WTR YR 1977 TOTAL 375.42 MEAN 1.03 MAX 2.5 MIN .65 AC-FT 745

10310405 CARSON RIVER AT GENOA, NV

LOCATION.--Lat 38°59'52", long 119°49'21", in SW¼SW¼ sec.11, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on right bank just downstream from bridge on State Route 57 and 1.2 mi (1.9 km) southeast of Genoa.

DRAINAGE AREA.--570 mi^2 (1,480 km^2), approximately.

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft (1,420 m), from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow slightly regulated by several small reservoirs on tributaries. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,350 ft^3/s (66.6 m^3/s) June 7, 1975, gage height, 9.45 ft (2.880 m); minimum, 1.1 ft^3/s (0.03 m^3/s) Aug. 31 to Sept. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 377 ft^3/s (10.7 m^3/s) June 10, gage height, 4.37 ft (1.332 m); minimum, 1.1 ft^3/s (0.03 m^3/s) Aug. 31-Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	21	12	27	25	34	16	47	20	2.0	1.1
2	22	12	25	12	24	20	34	15	65	25	2.0	1.1
3	42	17	28	13	24	21	34	10	50	12	2.0	1.4
4	24	16	32	12	24	21	31	8.6	35	6.1	2.2	1.6
5	11	14	28	11	28	21	24	14	52	4.6	2.2	1.8
6	7.3	12	25	11	30	18	17	13	60	4.6	2.2	1.6
7	6.7	7.9	24	10	31	20	20	16	39	4.6	2.5	1.4
8	5.6	10	17	10	28	24	21	7.9	36	7.9	3.0	1.6
9	6.1	7.3	24	11	35	25	17	17	117	8.6	3.1	2.5
10	6.1	4.6	15	11	34	27	12	21	318	9.4	3.0	2.5
11	5.1	4.6	13	11	32	16	12	25	199	4.6	2.5	2.0
12	2.5	5.6	11	12	31	16	11	18	137	4.2	2.2	1.8
13	2.2	7.9	10	13	32	18	6.7	33	124	5.1	2.2	1.8
14	3.8	8.6	9.0	12	33	24	10	20	89	6.7	2.2	2.0
15	4.2	9.4	8.0	18	31	24	20	6.7	69	5.1	2.2	2.0
16	5.1	13	7.0	18	24	24	25	32	55	3.4	2.2	2.0
17	6.1	13	8.0	17	20	25	12	55	39	2.2	2.2	2.5
18	5.6	14	7.0	18	20	22	12	46	33	2.5	2.5	2.8
19	3.8	15	7.0	21	16	21	7.3	49	47	2.5	2.5	2.8
20	3.4	17	7.0	20	16	20	4.6	34	70	2.5	2.5	2.8
21	3.1	18	8.0	21	54	17	4.2	58	60	2.5	2.8	2.5
22	2.8	21	10	21	100	18	7.9	66	47	2.8	3.4	2.5
23	2.5	27	9.0	28	56	22	10	70	30	3.0	2.2	2.5
24	3.1	22	9.0	24	49	35	2.8	59	14	3.0	1.6	2.2
25	3.8	22	9.0	20	35	30	3.1	36	9.4	3.0	1.8	2.0
26	3.8	21	9.0	18	34	28	4.6	14	14	3.0	1.8	2.0
27	4.2	17	9.0	20	30	25	5.1	40	28	2.8	1.8	2.0
28	3.8	13	10	17	24	27	11	39	30	2.5	2.0	2.0
29	4.2	13	12	17	---	33	14	25	20	2.2	2.8	2.2
30	6.1	14	11	21	---	35	16	12	14	2.2	3.1	2.5
31	8.6	---	11	24	---	34	---	13	---	2.0	1.1	---
TOTAL	230.6	406.9	433.0	504	922	736	443.3	889.2	1947.4	170.6	71.8	61.5
MEAN	7.44	13.6	14.0	16.3	32.9	23.7	14.8	28.7	64.9	5.50	2.32	2.05
MAX	42	27	32	28	100	35	34	70	318	25	3.4	2.8
MIN	2.2	4.6	7.0	10	16	16	2.8	6.7	9.4	2.0	1.1	1.1
AC-FT	457	807	859	1000	1830	1460	879	1760	3860	338	142	122

CAL YR 1976 TOTAL 15366.3 MEAN 42.0 MAX 302 MIN 2.2 AC-FT 30520
WTR YR 1977 TOTAL 6816.3 MEAN 18.7 MAX 318 MIN 1.1 AC-FT 13520

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'30", long 119°42'40", in SW¼NW¼ sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi (3 km) downstream from Clear Creek, 3 mi (5 km) upstream from Lloyd Bridge on road to Mexican Dam, and 5 mi (8 km) southeast of Carson City Post Office.

DRAINAGE AREA.--876 mi^2 (2,269 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft (1,408.322 m) above mean sea level, datum of 1929. Prior to Dec. 23, 1955, water-stage recorder on right bank at datum 1.0 ft (0.305 m) higher. Dec. 23, 1955, to Mar. 13, 1956, nonrecording gage at present site at datum 1.0 ft (0.305 m) higher. Mar. 14, 1956, to Sept. 30, 1963, water-stage recorder at present site at datum 1.0 ft (0.305 m) higher.

REMARKS.--Records good, except for winter periods which are poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

AVERAGE DISCHARGE.--38 years, 391 ft^3/s (11.07 m^3/s), 283,300 acre-ft/yr (349 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s (850 m^3/s) Dec. 24, 1955, gage height, 16.0 ft (4.88 m), present datum, from floodmarks, from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 16.0 ft (4.88 m), computation of flow over dam at gage height 12.40 ft (3.780 m), and float measurement at gage height 10.60 ft (3.231 m), all at present datum; minimum, 2.6 ft^3/s (0.074 m^3/s) Aug. 7, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 544 ft^3/s (15.4 m^3/s) June 10, gage height, 3.34 ft (1.018 m), no peak above base of 1,600 ft^3/s (45.3 m^3/s); minimum daily, 1.6 ft^3/s (0.04 m^3/s) Aug. 29, 30, Sept. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	54	59	62	95	92	79	32	46	31	3.7	1.7
2	48	44	63	65	86	89	74	37	111	37	3.7	1.7
3	67	50	71	66	84	86	74	33	113	31	3.6	1.7
4	85	51	74	70	87	86	66	31	79	23	3.4	1.7
5	69	49	79	63	89	80	57	24	76	19	3.3	1.8
6	55	53	76	62	95	76	54	29	130	16	3.1	1.7
7	50	82	72	61	101	73	52	26	154	18	3.0	1.6
8	48	75	70	59	99	72	54	32	128	17	3.1	1.6
9	45	69	82	55	102	78	55	42	188	15	3.2	1.8
10	45	65	76	60	103	91	50	58	445	13	3.7	1.7
11	44	60	71	63	97	78	47	75	418	13	3.1	1.7
12	41	60	65	64	95	74	47	82	272	13	3.0	1.7
13	44	48	64	66	93	72	39	124	203	10	4.3	1.8
14	39	56	62	69	95	76	31	127	190	8.7	4.2	1.8
15	40	64	60	72	88	78	35	110	128	7.9	3.6	1.8
16	35	71	58	74	82	77	48	112	98	7.5	2.6	1.9
17	39	68	56	76	73	76	49	198	67	7.7	2.8	2.0
18	41	69	54	84	72	72	42	198	60	6.9	3.2	2.1
19	54	73	54	87	64	70	39	144	64	6.1	2.8	2.1
20	49	79	54	90	67	67	35	114	84	5.5	2.5	2.2
21	44	72	56	92	110	65	33	120	77	5.2	2.3	2.1
22	54	72	58	101	337	53	33	145	60	5.1	2.2	2.3
23	42	78	57	109	205	53	30	173	49	5.0	2.0	2.5
24	43	79	55	103	156	63	33	203	29	5.1	2.0	2.4
25	46	77	54	96	131	78	43	156	20	5.3	2.1	2.2
26	52	75	54	93	119	66	47	107	18	5.2	2.0	2.2
27	47	71	52	91	108	63	44	84	29	4.7	2.0	2.3
28	53	63	50	88	103	59	39	107	38	4.5	1.8	2.2
29	51	60	56	90	---	65	35	90	43	4.1	1.6	2.3
30	46	59	60	85	---	78	28	59	33	3.9	1.6	2.3
31	52	---	59	85	---	80	---	38	---	3.9	1.7	---
TOTAL	1502	1946	1931	2401	3036	2286	1392	2910	3450	358.3	87.2	58.9
MEAN	48.5	64.9	62.3	77.5	108	73.7	46.4	93.9	115	11.6	2.81	1.96
MAX	85	82	82	109	337	92	79	203	445	37	4.3	2.5
MIN	34	44	50	55	64	53	28	24	18	3.9	1.6	1.6
AC-FT	2980	3860	3830	4760	6020	4530	2760	5770	6840	711	173	117

CAL YR 1976 TOTAL 38676.1 MEAN 106 MAX 551 MIN 6.6 AC-FT 76710
WTR YR 1977 TOTAL 21358.4 MEAN 58.5 MAX 445 MIN 1.6 AC-FT 42360

10311000 CARSON RIVER NEAR CARSON CITY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to September 1977

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR										
21...	1450	E33	585	8.6	20.5	6	150	45	9.9	60
27...	1330	47	502	--	20.0	--	--	--	--	--
MAY										
19...	1045	180	426	--	11.5	--	130	36	10	36
26...	1300	105	418	--	18.0	--	--	--	--	--
JUN										
29...	0900	48	460	--	18.0	--	--	--	--	--
JUL										
28...	1410	5.0	751	--	24.5	--	--	--	--	--
SEP										
28...	1030	2.2	840	--	15.0	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
APR										
21...	2.1	6.5	170	0	120	20	.9	28	376	374
27...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	1.4	5.6	160	0	58	13	.6	26	--	264
26...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
SEP										
28...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
APR										
21...	47.7	.09	.00	.12	.00	.84	.66	1.1	.46	.39
27...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	128	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
SEP										
28...	--	--	--	--	--	--	--	--	--	--

E: ESTIMATED.

10311000 CARSON RIVER NEAR CARSON CITY, NV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
APR 21...	1450	17	15	--	<10	0	<10	0
MAY 19...	1045	--	--	250	--	--	--	--

DATE	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
APR 21...	<50	1	<10	3	790	80	<100	0	--
MAY 19...	--	--	--	--	--	--	--	--	30

DATE	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
APR 21...	380	250	.0	.0	1	0	20	10
MAY 19...	--	--	--	--	--	--	--	--

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'14", long 119°48'24", in NW¼SW¼ sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 2 mi (3.2 km) west of Carson Street off King Canyon Road.

DRAINAGE AREA.--4.06 mi² (10.52 km²).

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft (1,580 m), from topographic map.

REMARKS.--Records good. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7.5 ft³/s (0.212 m³/s) Feb. 21, 1977, gage height, 4.32 ft (1.316 m); maximum gage height, 4.38 ft (1.335 m) Jan. 7, 30, 1977 (backwater from ice); minimum daily, 0.16 ft³/s (0.005 m³/s) June 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 7.5 ft³/s (0.212 m³/s) Feb. 21, 1977, gage height, 4.32 ft (1,316 m); minimum daily, 0.16 ft³/s (0.005m³/s) June 12, 1977.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	.49	.69	.95	.69	.69	.55	.49	.25	.44	.29	.44
2	.86	.49	.69	1.2	.62	.62	.49	.55	.25	.44	.29	.44
3	.62	.49	.77	1.4	.62	.69	.49	.49	.25	.37	.33	.37
4	.55	.49	.77	1.2	.62	.77	.62	.49	.16	.33	.33	.25
5	.55	.49	.77	1.2	.77	.69	.77	.55	.22	.49	.29	.25
6	.55	.49	.77	1.2	.77	.77	.77	.62	.25	.44	.33	.33
7	.49	.55	.77	1.2	.86	.77	.77	.62	.22	.49	.22	.37
8	.49	.55	.77	.86	.86	.77	.77	.55	.25	.49	.29	.44
9	.49	.55	.86	.86	.77	.77	.69	.49	.33	.33	.29	.37
10	.49	.62	.95	.86	.77	.86	.62	.44	.33	.33	.37	.44
11	.49	.62	.95	.95	.77	.69	.62	.37	.29	.37	.37	.25
12	.44	.62	.95	.95	.77	.69	.62	.49	.16	.37	.44	.30
13	.49	.62	.95	.95	.86	.62	.69	.49	.29	.37	.33	.33
14	.49	.69	.95	.95	.86	.60	.62	.44	.33	.37	.29	.37
15	.49	.69	.95	.86	.77	.62	.62	.37	.33	.33	.33	.37
16	.49	.69	.95	.86	.77	.55	.62	.37	.33	.33	.33	.44
17	.44	.69	.95	.77	.77	.55	.62	.49	.37	.25	.44	.49
18	.49	.69	.95	.77	.69	.55	.62	.44	.25	.25	.44	.44
19	.49	.69	.95	.69	.69	.55	.62	.44	.22	.22	.44	.37
20	.49	.69	.86	.69	.69	.55	.62	.37	.33	.33	.37	.55
21	.49	.69	.69	.69	2.0	.55	.62	.37	.33	.33	.25	.44
22	.49	.69	.69	.69	1.2	.62	.62	.29	.33	.33	.37	.44
23	.49	.69	.69	.69	.86	.62	.62	.33	.29	.29	.37	.44
24	.44	.69	.77	.62	.95	.62	.55	.37	.33	.25	.49	.37
25	.49	.69	.77	.49	.86	.62	.55	.37	.29	.22	.49	.29
26	.62	.62	.77	.62	.77	.55	.55	.37	.25	.22	.44	.33
27	.55	.49	.77	.62	.77	.55	.62	.37	.33	.33	.37	.33
28	.55	.33	.77	.62	.77	.49	.62	.29	.37	.37	.33	.44
29	.55	.37	.77	.69	---	.49	.62	.22	.44	.33	.33	.44
30	.49	.55	.86	.69	---	.55	.49	.25	.44	.25	.37	.44
31	.49	---	.86	.69	---	.55	---	.25	---	.29	.44	---
TOTAL	16.31	17.71	25.63	26.48	23.17	19.58	18.67	13.04	8.81	10.55	11.06	11.57
MEAN	.53	.59	.83	.85	.83	.63	.62	.42	.29	.34	.36	.39
MAX	.86	.69	.95	1.4	2.0	.86	.77	.62	.44	.49	.49	.55
MIN	.44	.33	.69	.49	.62	.49	.49	.22	.16	.22	.22	.25
AC-FT	32	35	51	53	46	39	37	26	17	21	22	23

WTR YR 1977 TOTAL 202.58 MEAN .56 MAX 2.0 MIN .16 AC-FT 402

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'16", in NW¼SW¼ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 2 mi (3.2 km) west of intersection of Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi² (13.47 km²).

PERIOD OF RECORD.--July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,080 ft (1548 m), from topographic map.

REMARKS.--Records good except for period of fragmentary or no gage height record, Nov. 26 to Jan. 20 and Apr. 9 to May 9, which are poor. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 7.1 ft³/s (0.201 m³/s) Oct. 1, 1976; minimum daily 0.80 ft³/s (0.023 m³/s) Aug. 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 7.1 ft³/s (0.201 m³/s) Oct. 1, gage height, 1.47 ft (0.448 m); minimum daily, 0.80 ft³/s (0.023 m³/s) Aug. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.7	1.7	1.8	1.7	1.8	1.9	2.3	2.2	1.1	.88	.92
2	2.6	1.7	1.7	1.9	1.7	2.0	1.8	2.3	2.0	1.3	.92	.88
3	2.0	1.7	1.7	1.9	1.7	1.8	1.9	2.3	1.9	1.2	.88	.88
4	1.9	1.7	1.7	1.8	1.7	1.8	2.1	2.2	1.9	1.2	.88	.88
5	1.8	1.7	1.7	1.7	1.7	1.8	2.5	2.2	1.8	1.2	.88	.84
6	1.8	1.7	1.7	1.6	1.7	1.8	2.9	2.2	1.8	1.1	.88	.80
7	1.8	1.7	1.7	1.6	1.7	1.8	3.0	2.2	1.8	1.1	.88	.84
8	1.8	1.7	1.8	1.6	1.7	1.8	2.9	2.2	1.8	1.1	.88	.88
9	1.7	1.7	1.8	1.7	1.7	1.9	2.8	2.1	2.4	1.1	.88	.92
10	1.7	1.7	1.7	1.9	1.7	1.9	2.8	1.9	2.1	1.1	.92	.88
11	1.8	1.8	1.8	1.8	1.6	1.9	2.8	2.0	1.8	.99	.80	.92
12	1.8	1.8	1.8	1.8	1.6	1.8	2.8	2.2	1.7	1.1	.80	.95
13	1.8	1.7	1.8	1.8	1.6	2.3	2.5	2.4	1.6	1.0	.80	.95
14	1.8	2.0	1.7	1.8	1.6	2.0	2.5	2.7	1.6	.95	.80	.95
15	1.8	1.9	1.7	1.8	1.6	1.8	2.5	2.5	1.5	.95	.77	.99
16	1.8	1.9	1.7	1.8	1.7	1.8	2.5	2.2	1.5	.95	.77	1.2
17	1.8	1.9	1.7	1.8	1.7	1.8	2.6	2.2	1.5	.95	.95	1.2
18	1.8	1.8	1.6	1.8	1.6	1.8	2.6	2.1	1.5	.95	.92	1.2
19	1.8	1.8	1.6	1.8	1.6	1.9	2.6	2.4	1.5	.92	.88	1.2
20	1.8	1.8	1.6	1.9	1.6	1.9	2.7	2.5	1.5	.92	.84	1.8
21	1.8	1.8	1.6	1.8	2.3	1.9	2.7	2.6	1.5	.92	.84	1.2
22	1.8	1.8	1.7	1.8	1.8	2.0	2.7	2.4	1.4	.92	.80	1.2
23	1.9	1.8	1.8	1.8	1.8	2.1	2.7	2.2	1.3	.88	.80	1.2
24	1.9	1.8	1.8	1.8	1.8	2.0	2.4	2.4	1.3	.88	.88	1.1
25	1.8	1.8	1.8	1.8	1.8	2.0	2.4	2.2	1.2	.88	.95	1.1
26	1.8	1.7	1.8	1.8	1.8	2.0	2.4	2.2	1.2	.92	.95	1.2
27	1.7	1.6	1.8	1.7	1.8	2.1	2.4	2.2	1.2	.92	.92	1.2
28	1.7	1.6	1.8	1.7	1.8	2.0	2.4	2.1	1.2	.92	.92	1.2
29	1.7	1.6	1.8	1.7	---	2.0	2.3	2.0	1.2	.88	.92	1.2
30	1.7	1.7	1.8	1.7	---	1.9	2.3	2.1	1.2	.88	.88	1.2
31	1.7	---	1.7	1.7	---	1.9	---	2.3	---	.88	.88	---
TOTAL	56.9	52.6	53.6	54.9	48.1	59.3	75.4	69.8	48.1	31.06	26.95	31.88
MEAN	1.84	1.75	1.73	1.77	1.72	1.91	2.51	2.25	1.60	1.00	.87	1.06
MAX	2.6	2.0	1.8	1.9	2.3	2.3	3.0	2.7	2.4	1.3	.95	1.8
MIN	1.7	1.6	1.6	1.6	1.6	1.8	1.8	1.9	1.2	.88	.77	.80
AC-FT	113	104	106	109	95	118	150	138	95	62	53	63

WTR YR 1977 TOTAL 608.59 MEAN 1.67 MAX 3.0 MIN .77 AC-FT 1210

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV
(National stream-quality accounting network station)

LOCATION.--Lat 39°17'30", long 119°18'40', in SW¼SE¼ sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, on right bank 400 ft (122 m) downstream from Buckland ditch, 2 mi (3 km) west of Fort Churchill, and 4.5 mi (7.2 km) upstream from Weeks Bridge on U.S. Highway 95 alternate.

DRAINAGE AREA.--1,450 mi^2 (3,760 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1917.

GAGE.--Water-stage recorder. Datum of gage is 4,214.70 ft (1,284.641 m) above mean sea level. Prior to Apr. 25, 1924, nonrecording gage at site 7.8 mi (12.6 km) upstream at different datum. Apr. 25, 1924, to Dec. 31, 1933, water-stage recorder at site 8 mi (13 km) upstream at different datum. Jan. 1, 1934, to Sept. 30, 1957, water-stage recorder at present site at datum 1.36 ft (0.414 m) higher (levels by Truckee-Carson Irrigation District).

REMARKS.--Records good. Many diversions for irrigation above station, including diversions for irrigation of 720 acres (2.91 km^2) between present site and sites used prior to Jan. 1, 1934. Buckland ditch diverts 400 ft (122 m) upstream for irrigation below station.

AVERAGE DISCHARGE.--66 years, 359 ft^3/s (10.17 m^3/s), 260,100 acre-ft/yr (325 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,300 ft^3/s (433 m^3/s) Feb. 2, 1963, gage height, 10.83 ft (3.301 m); maximum gage height, about 11 ft (3.35 m) in December 1955, present datum, from floodmarks (discharge unknown); no flow during some periods in nearly every year since 1923.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft^3/s (6.51 m^3/s) June 11, gage height, 2.55 ft (0.777 m), no peak above base of 1,400 ft^3/s (39.6 m^3/s), no flow Aug. 8 to Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	38	73	72	94	90	17	.93	38	5.3	.12	.00
2	5.0	40	67	76	92	80	21	.93	18	4.5	.06	.00
3	20	43	67	76	88	69	24	.93	9.6	3.7	.04	.00
4	30	43	67	80	84	64	24	1.1	10	3.4	.04	.00
5	25	42	66	74	86	61	20	1.1	5.3	3.1	.04	.00
6	11	44	67	72	86	58	18	1.2	5.3	2.8	.02	.00
7	7.8	46	73	70	86	56	14	1.7	4.5	1.7	.02	.00
8	6.3	47	78	68	90	51	12	1.3	12	.93	.00	.00
9	5.3	54	66	68	90	50	9.0	2.8	12	.71	.00	.00
10	5.3	56	64	72	90	51	9.0	5.3	29	.71	.00	.00
11	3.4	58	64	72	92	53	12	7.8	156	.71	.00	.00
12	2.5	59	64	74	92	51	11	18	200	.71	.00	.00
13	1.7	59	66	76	92	47	7.8	32	151	.63	.00	.00
14	.93	59	64	78	78	47	4.7	47	109	.56	.00	.00
15	.35	56	62	82	73	48	2.5	56	100	.45	.00	.00
16	.27	59	60	84	71	51	2.0	54	74	.40	.00	.00
17	.35	62	58	88	67	51	1.5	50	51	.31	.00	.00
18	1.3	66	60	88	61	48	1.2	78	35	.31	.00	.00
19	4.1	66	58	88	51	47	1.2	100	29	.35	.00	.00
20	3.7	69	58	88	47	46	1.0	78	26	.31	.00	.00
21	3.7	73	58	90	47	43	1.0	61	22	.31	.00	.00
22	6.8	74	60	92	69	42	1.0	53	22	.40	.00	.00
23	2.2	69	64	96	188	35	1.2	62	19	.45	.00	.00
24	1.2	66	62	100	151	29	1.0	74	14	.50	.00	.00
25	6.3	67	62	100	123	26	1.0	96	13	.45	.00	.00
26	13	66	62	96	111	31	.81	84	11	.40	.00	.00
27	18	66	62	94	102	34	.81	67	9.6	.23	.00	.00
28	29	64	62	92	94	29	.81	46	8.4	.12	.00	.00
29	33	66	64	90	---	18	.93	38	6.3	.09	.00	.09
30	35	78	69	94	---	14	.93	39	5.3	.12	.00	.04
31	38	---	70	88	---	14	---	40	---	.19	.00	---
TOTAL	320.59	1755	1997	2578	2495	1434	222.39	1198.09	1205.3	34.85	.34	.13
MEAN	10.3	58.5	64.4	83.2	89.1	46.3	7.41	38.6	40.2	1.12	.011	.004
MAX	38	78	78	100	188	90	24	100	200	5.3	.12	.09
MIN	.09	38	58	68	47	14	.81	.93	4.5	.09	.00	.00
AC-FT	636	3480	3960	5110	4950	2840	441	2380	2390	69	.7	.3

CAL YR 1976 TOTAL 26870.85 MEAN 73.4 MAX 341 MIN .08 AC-FT 53300
WTR YR 1977 TOTAL 13240.69 MEAN 36.3 MAX 200 MIN .00 AC-FT 26260

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1960 to current year (published as Carson River near Silver Springs, sta. no. 10312020, October 1962 to September 1970).

CHEMICAL ANALYSES: October 1962 to April 1967, once-daily (composited); May 1967 to September 1969, once-daily (composited) and monthly; October 1969 to current year, monthly.

SPECIFIC CONDUCTANCES: October 1962 to June 1970, once-daily; July 1970 to January 1972, monthly; February 1972 to current year, once-daily.

BIOLOGICAL AND MICROBIOLOGICAL DATA: January 1975 to current year, monthly.

WATER TEMPERATURES: April 1960 to September 1962, monthly; October 1962 to June 1970, once-daily; July 1970 to January 1972, monthly; February 1972 to current year, once-daily.

SEDIMENT DATA: January to June 1974, occasional; January 1975 to current year, monthly.

REMARKS.--Monthly water-quality data are collected from Buckland Ditch, which leaves river 400 ft (120 m) upstream from gage, or from river at gage, depending on discharge (more detailed sampling information is available from U.S. Geol. Survey office, Carson City, Nev.). Discharge data do not include ditch flow. Daily water-quality data are collected from Buckland Ditch, in SE¼ sec.34, T.17 N R.24 E., about 2 mi (3 km) downstream from gaging station.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 840 micromhos Sept. 13, 1973; minimum, 81 micromhos July 3, 1967.

WATER TEMPERATURES: Maximum, 29.0°C Aug. 7, 1972; minimum, freezing point on many days during winter months of most years.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 676 mg/L June 3, 1975; minimum, 4 mg/L Jan. 2, 1975, Dec. 1, 1976.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 779 micromhos Sept. 3; minimum, 330 micromhos, June 12.

WATER TEMPERATURES: Maximum, 25.0°C June 6, Aug. 3; minimum, freezing point on several days in November, December, and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 01...	0930	.10	648	8.3	14.5	10	6	60	--	--	--
DEC 01...	1405	71	557	8.1	1.0	6	3	87	--	--	--
JAN 04...	1325	92	442	8.2	.5	4	1	110	130	39	9.1
FEB 01...	1240	98	456	8.2	4.0	3	0	68	--	--	--
MAR 02...	1235	76	505	8.5	5.5	4	0	78	--	--	--
APR 04...	1255	26	540	8.3	14.0	7	0	78	--	--	--
MAY 04...	1200	.98	650	8.6	10.0	2	1	22	220	66	14
JUN 02...	1300	13	640	8.2	20.0	9	5	46	--	--	--
JUL 05...	0915	3.8	667	8.2	17.5	10	25	140	230	67	14
AUG 03...	1245	.07	711	8.1	26.5	10	5	52	--	--	--
31...	1245	.01	660	8.5	21.0	25	3	21	220	62	15

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 01...	--	--	--	--	--	--	--	--	--	--	--
DEC 01...	--	--	--	--	--	--	--	--	--	--	--
JAN 04...	38	1.4	4.4	130	0	86	13	.6	25	287	280
FEB 01...	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	--	--	--	--	--	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--	--	--	--	--	--
MAY 04...	59	1.7	5.0	200	0	170	15	.7	25	445	453
JUN 02...	--	--	--	--	--	--	--	--	--	--	--
JUL 05...	63	1.8	5.6	200	0	160	20	.6	28	454	457
AUG 03...	--	--	--	--	--	--	--	--	--	--	--
31...	62	1.8	6.5	190	0	170	20	.6	25	452	455

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSULVED PHOSPHORUS (P) (MG/L)
OCT 01...	--	.03	.00	.01	--	.52	--	.56	.13	--
DEC 01...	--	.94	.02	.14	--	.55	--	1.7	.36	--
JAN 04...	71.3	.61	.03	.45	.45	.40	.43	1.5	.46	.40
FEB 01...	--	.75	.02	.07	--	.42	--	1.3	.36	--
MAR 02...	--	.76	.02	.05	--	.86	--	1.7	.35	--
APR 04...	--	.03	.00	.02	--	.28	--	.33	.31	--
MAY 04...	1.18	.02	.00	.03	.00	.21	.20	.26	.09	.07
JUN 02...	--	.01	.02	.07	--	.53	--	.63	.25	--
JUL 05...	4.66	.03	.00	.06	.03	.58	.02	.67	.21	.13
AUG 03...	--	.00	.01	.10	--	.73	--	.84	.17	--
31...	.01	.00	.01	.25	.02	1.1	.05	1.3	.29	.12

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
JAN 04...	1325	7	7	<10	0	0	0	<50	0	30	2	350
MAY 04...	1200	5	5	<10	0	0	0	<50	0	10	0	180
JUL 05...	0915	7	6	10	0	0	0	<50	0	30	1	1200
AUG 31...	1245	9	5	30	1	0	0	<50	0	10	1	1300

DATE	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JAN 04...	110	<100	0	130	60	.5	.1	0	0	20	0
MAY 04...	10	<100	0	200	170	.2	.0	0	0	30	0
JUL 05...	30	<100	2	420	300	2.1	.0	0	0	20	0
AUG 31...	60	100	0	580	400	3.1	.0	0	1	20	0

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 1,76		DEC 1,76		JAN 4,77		MAY 4,77	
TIME	0930		1405		1325		1200	
TOTAL CELLS/ML	1800		1000		2300		660	
DIVERSITY: DIVISION	1.1		1.4		0.2		0.5	
.CLASS	1.1		1.4		0.2		0.5	
..ORDER	1.6		1.6		0.3		1.3	
...FAMILY	2.3		2.1		2.1		2.2	
....GENUS	2.4		2.3		2.2		2.3	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	*	0	*	0	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	62	6	14	1	7	1
....KIRCHNERIELLA	--	-	25	2	--	-	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	110	6	57	6	--	-	58	9
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	*	0
..ZYGNEMATALES								
...ZYGNEMATACEAE								
....MOUGEOTIA	--	-	*	0	--	-	--	-
....SPIROGYRA	--	-	*	0	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	270#	15	37	4	41	2	190#	29
....MELOSIRA	*	0	--	-	--	-	*	0
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	*	0	*	0	--	-	*	0
....COCCONEIS	*	0	*	0	41	2	7	1
....RHOICOSPHENIA	*	0	--	-	14	1	*	0
...CYMBELLACEAE								
....AMPHORA	*	0	--	-	--	-	7	1
....CYMBELLA	*	0	--	-	14	1	*	0
....EPITHEMIA	*	0	*	0	41	2	--	-
....RHOPALODIA	*	0	*	0	--	-	*	0
...DIATOMACEAE								
....DIATOMA	*	0	*	0	14	1	*	0
...FRAGILARIACEAE								
....FRAGILARIA	820#	45	110	10	27	1	240#	36
....SYNEDRA	*	0	16	2	14	1	7	1
...GOMPHONEMATACEAE								
....GOMPHONEMA	*	0	*	0	1100#	51	*	0
...NAVICULACEAE								
....ANOMOEONEIS	*	0	*	0	--	-	--	-
....CALONEIS	*	0	--	-	--	-	*	0
....DIPLONEIS	--	-	*	0	--	-	--	-
....GYROSIGMA	*	0	*	0	--	-	--	-
....NAVICULA	69	4	33	3	230	10	43	7
....NEIDIUM	*	0	--	-	--	-	*	0
....PINNULARIA	*	0	--	-	--	-	*	0
...NITZSCHIACEAE								
....CYLINDROTHECA	--	-	*	0	--	-	--	-
....HANTZSCHIA	--	-	*	0	--	-	--	-
....NITZSCHIA	100	6	110	11	570#	25	100#	15
...SURIRELLACEAE								
....CYMATOPLEURA	*	0	--	-	--	-	--	-
....SURIRELLA	*	0	*	0	27	1	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 1,76	DEC 1,76	JAN 4,77	MAY 4,77
TIME	0930	1405	1325	1200
TOTAL CELLS/ML	1800	1000	2300	660
DIVERSITY: DIVISION	1.1	1.4	0.2	0.5
.CLASS	1.1	1.4	0.2	0.5
..ORDER	1.6	1.6	0.3	1.3
...FAMILY	2.3	2.1	2.1	2.2
....GENUS	2.4	2.3	2.2	2.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	14	1	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	370#	20	570#	55	41	2	*	0
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
....PHACUS	--	-	*	0	--	-	--	-
....TRACHELOMONAS	*	0	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JUL 5,77	AUG 3,77	AUG 31,77
TIME	0915	1245	1245
TOTAL CELLS/ML	25000	8500	41000
DIVERSITY: DIVISION	0.2	1.4	0.9
.CLASS	0.2	1.4	0.9
..ORDER	0.7	2.1	0.9
...FAMILY	1.3	3.0	1.1
....GENUS	1.5	3.3	1.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	190	2	930	2
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	1000	3
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	93	1	720	2
....KIRCHNERIELLA	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	*	0
...SCENEDESMACEAE						
....SCENEDESMUS	570	2	560	7	620	2
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	140	2	--	-
..ZYGNEMATALES						
...ZYGNEMATACEAE						
....MOUGEOTIA	--	-	--	-	--	-
....SPIROGYRA	--	-	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	330	1	3200#	37	--	-
....MELOSIRA	3300	13	190	2	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	230	3	--	-
....COCCONEIS	*	0	190	2	--	-
....RHOICOSPHENIA	--	-	280	3	--	-
...CYMBELLACEAE						
....AMPHORA	190	1	420	5	*	0
....CYMBELLA	*	0	47	1	*	0
....EPITHEMIA	240	1	--	-	*	0
....RHOPALODIA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	*	0	280	3	310	1
...FRAGILARIACEAE						
....FRAGILARIA	19000#	75	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	140	1	280	3	360	1
...NAVICULACEAE						
....ANOMOEONEIS	--	-	--	-	--	-
....CALONEIS	240	1	--	-	--	-
....DIPLONEIS	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-
....NAVICULA	380	2	420	5	210	1
....NEIDIUM	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	*	0
...NITZSCHIACEAE						
....CYLINDROTHECA	--	-	--	-	--	-
....HANTZSCHIA	--	-	--	-	--	-
....NITZSCHIA	330	1	230	3	--	-
...SURIRELLACEAE						
....CYMATOPLEURA	*	0	--	-	--	-
....SURIRELLA	140	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JUL 5,77	AUG 3,77	AUG 31,77
TIME	0915	1245	1245
TOTAL CELLS/ML	25000	8500	41000
DIVERSITY: DIVISION	0.2	1.4	0.9
.CLASS	0.2	1.4	0.9
..ORDER	0.7	2.1	0.9
...FAMILY	1.3	3.0	1.1
....GENUS	1.5	3.3	1.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE.						
.CYANOPHYCEAE						
..CHROCCOCCALES						
...CHROCCOCCAEAE						
....ANACYSTIS	--	-	--	-	34000#	83
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	1200	14	--	-
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.CRYPTOPHYCEAE						
..CRYPTOMONIDALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	2000	5
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	230	3	*	0
....PHACUS	--	-	--	-	--	-
....TRACHELOMONAS	--	-	420	5	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT				
01...	0930	.10	20	.01
DEC				
01...	1405	71	4	.77
JAN				
04...	1325	92	7	1.7
FEB				
01...	1240	98	13	3.4
MAR				
02...	1235	76	6	1.2
APR				
04...	1255	26	22	1.5
MAY				
04...	1200	.98	8	.02
JUN				
02...	1300	13	20	.75
JUL				
05...	0915	3.8	28	.29
AUG				
03...	1245	.07	28	.01
31...	1245	.01	40	.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	581	542	498	472	498	594	645	588	678	700	701
2	662	573	539	479	459	500	581	660	651	691	701	726
3	665	573	539	450	442	502	565	660	662	684	701	779
4	652	574	528	458	442	500	562	662	676	682	701	758
5	665	568	515	439	453	502	562	662	645	686	721	750
6	658	569	510	448	461	505	562	667	641	689	718	734
7	558	578	512	471	459	502	578	660	643	689	713	773
8	568	578	510	498	457	520	598	656	625	684	716	---
9	578	555	557	512	451	522	623	625	573	680	714	---
10	584	559	512	520	448	522	640	621	554	669	711	---
11	589	538	502	517	449	520	642	645	475	667	706	---
12	612	545	490	510	453	512	624	629	330	682	716	---
13	625	545	490	484	455	517	626	615	376	689	708	---
14	623	538	495	460	465	---	642	571	417	687	703	---
15	631	542	510	452	465	525	644	543	452	689	701	---
16	640	548	---	468	463	525	642	542	482	689	703	---
17	640	552	---	470	468	520	648	551	526	706	694	---
18	650	548	510	466	464	522	644	562	573	701	673	---
19	615	538	507	452	485	522	642	---	606	708	678	---
20	612	553	512	450	502	526	642	461	606	713	673	---
21	614	525	531	446	521	525	642	506	627	694	694	---
22	619	532	510	443	505	534	642	545	647	691	682	---
23	619	532	528	443	465	548	---	557	654	696	694	731
24	630	524	531	437	445	570	649	541	647	705	714	742
25	612	524	537	435	483	571	670	522	662	713	719	---
26	594	544	523	433	496	586	675	471	678	710	706	---
27	584	540	518	442	487	571	656	477	641	713	706	---
28	605	545	510	446	500	568	642	519	678	713	696	---
29	593	545	507	446	---	575	660	571	687	713	698	---
30	565	546	488	452	---	597	660	568	680	---	696	729
31	534	---	498	456	---	603	---	573	---	713	696	---
MEAN	614	549	515	463	468	533	626	582	590	694	701	742
MAX	665	581	557	520	521	603	675	667	687	713	721	779
MIN	534	524	488	433	442	498	562	461	330	667	673	701

WTR YR 1977 MEAN 582 MAX 779 MIN 330

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	6.0	0.0	0.0	2.0	3.0	7.0	---	19.0	22.0	18.5	14.5
2	14.0	9.0	0.0	0.0	1.0	2.0	6.0	11.5	15.0	22.0	20.0	15.5
3	12.0	5.5	0.0	1.0	1.0	4.0	7.0	13.5	15.5	20.0	25.0	17.5
4	12.5	6.5	1.0	0.0	1.0	3.0	9.5	11.5	19.5	18.5	22.0	16.0
5	12.0	7.0	0.0	0.0	1.0	3.5	10.0	13.0	22.0	19.0	18.0	19.0
6	13.0	7.0	0.0	0.0	1.0	5.0	12.0	10.5	25.0	17.5	16.5	17.0
7	14.0	7.0	0.0	0.0	2.5	7.0	13.0	9.5	21.5	21.0	17.0	22.5
8	16.0	7.0	0.0	0.0	4.5	6.5	12.0	10.0	19.5	21.0	14.5	---
9	18.5	7.5	1.0	0.0	3.0	7.5	10.0	9.0	18.0	19.5	15.0	---
10	16.0	7.0	0.0	0.0	4.0	3.0	9.0	8.0	15.0	18.5	18.0	---
11	14.0	5.5	0.0	0.0	3.0	3.5	9.0	10.5	18.0	20.5	18.0	---
12	12.5	5.5	0.0	0.5	4.0	6.0	10.0	9.5	19.5	21.5	19.0	---
13	11.5	7.5	0.0	0.0	4.0	4.0	11.5	10.5	19.0	20.0	19.0	---
14	11.5	7.0	0.0	1.0	4.0	---	11.5	14.0	18.0	21.5	18.0	---
15	12.0	7.0	2.0	1.5	5.0	7.0	10.5	13.0	19.0	21.5	17.0	---
16	12.0	7.0	---	0.5	5.0	5.0	13.0	10.5	20.0	23.0	16.0	---
17	11.0	7.0	---	1.0	6.5	4.5	13.0	7.5	19.0	22.0	---	---
18	10.0	6.5	0.0	0.5	5.5	3.5	12.0	9.0	17.0	21.0	20.0	---
19	8.0	5.5	3.0	0.5	5.0	5.0	11.0	---	17.0	19.0	19.0	---
20	8.0	6.0	0.5	1.0	5.5	8.0	11.5	14.5	17.5	19.5	19.5	---
21	7.5	5.5	0.0	1.5	7.0	7.5	13.0	15.5	19.0	21.0	19.5	---
22	9.0	4.5	---	3.0	4.0	9.0	14.0	16.0	21.5	20.0	19.5	---
23	10.0	4.0	0.0	3.5	5.0	10.0	---	12.0	21.0	20.5	17.0	7.0
24	9.0	3.5	0.0	4.0	3.0	6.0	15.5	12.0	22.5	21.5	17.0	11.0
25	8.5	3.5	0.5	2.0	3.0	5.0	15.5	12.0	22.5	19.0	16.5	---
26	7.5	1.0	0.0	1.5	4.0	7.0	13.5	13.0	21.5	17.5	14.5	---
27	6.0	0.0	0.0	1.0	4.0	8.5	14.0	13.0	22.5	19.0	12.0	---
28	5.5	0.0	0.0	2.0	5.0	6.0	15.0	13.5	22.0	17.0	12.5	---
29	6.0	1.5	0.0	1.0	---	6.5	14.5	15.0	22.0	17.0	15.0	---
30	6.0	0.0	0.0	0.5	---	5.0	15.0	16.0	23.0	---	14.0	9.0
31	6.0	---	0.0	2.0	---	4.0	---	19.0	---	18.5	14.5	---
MEAN	10.7	5.2	0.2	0.9	3.6	5.5	11.6	12.1	19.7	19.9	17.4	14.9
MAX	18.5	9.0	3.0	4.0	7.0	10.0	15.5	19.0	25.0	23.0	25.0	22.5
MIN	5.5	0.0	0.0	0.0	1.0	2.0	6.0	7.5	15.0	17.0	12.0	7.0

WTR YR 1977 MEAN 9.9 MAX 25.0 MIN 0.0

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW¼SE¼ sec.33, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050202, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi (29 km) west of Fallon.

DRAINAGE AREA.--1,950 m^2 (5,050 km^2), approximately (not including inflow from Truckee Canal).

PERIOD OF RECORD.--January 1917 to current year. Monthly contents only for January 1917 to September 1960, published in WSP 1734.

GAGE.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is at mean sea level, Bureau of Reclamation datum, which is 3.73 ft (1.137 m) lower than datum of 1929, supplementary adjustment of 1956, according to levels by Bureau of Reclamation during 1966.

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,100 acre-ft (364 hm^3) between elevations, 4,060.0 ft (1,237.49 m), invert of outlet conduit, and 4,162.0 ft (1,268.58 m), spillway crest; includes 91 acre-ft (112,000 m^3) of dead storage below elevation 4,070.0 ft (1,240.54 m). Surface area at spillway elevation, 12,120 acres (49.0 km^2). Water is used for irrigation of 87,500 acres (354 km^2) in Newland Project and for power. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated 1972. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe, Donner Lake, Prosser Creek, Stampede, Boca, and other Reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

COOPERATION.--Records of daily elevations furnished by Truckee-Carson Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed (20-inch flashboard on weir), 328,600 acre-ft (405 hm^3) June 16, 1942, elevation, 4,164.43 ft (1,269.318 m); minimum observed, 91 acre-ft (112,000 m^3) Sept. 7-9, 1929, elevation, 4,070.0 ft (1,240.54 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 196,200 acre-ft (242 hm^3) Apr. 1, elevation, 4,151.27 ft (1,265.307 m); minimum observed, 18,770 acre-ft (23.1 hm^3) Sept. 15, elevation, 4,102.63 ft (1,250.482 m).

Capacity table (elevation, in feet, contents, in acre-ft)

4,102	18,010	4,130	82,700
4,105	21,840	4,135	103,500
4,110	29,460	4,140	127,800
4,115	39,080	4,145	155,440
4,120	50,890	4,150	187,200
4,125	65,300	4,155	225,600

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71670	76560	99030	123600	151100	175100	196200	172500	157300	135300	81860	36980
2	71570	77350	99650	124200	151900	176000	196100	171600	155000	132900	80290	35570
3	72140	78000	100400	125200	152900	177000	196100	169700	153100	131100	78660	34310
4	72760	78730	101200	126100	153800	177900	196100	168000	150900	129900	77280	32940
5	73310	79540	101900	126800	154700	178700	195800	166900	148800	128800	75840	32020
6	73800	80180	102800	127600	155600	179500	195500	165500	147000	127400	74570	31540
7	74320	80960	103600	128500	156500	179900	195100	164400	145100	125700	73310	30530
8	74850	81750	104500	129400	157400	180600	194500	163500	143200	123800	72280	29090
9	75100	82510	107800	130100	158300	181400	193700	162700	141500	122000	70650	27790
10	75130	83310	106100	130800	159200	182800	193300	167500	141600	120100	68990	25930
11	75240	84080	106900	131600	160100	182900	192900	162400	142000	117700	67480	24180
12	75380	84900	107700	132500	161000	183800	192000	162700	142300	116200	65930	22520
13	75060	85520	108400	133400	161800	184700	191400	162800	143300	114100	64420	20890
14	74670	86230	109100	134200	162500	185600	190600	163200	143700	112100	62860	19880
15	73940	86980	109900	135100	163400	186400	189700	163600	144100	110300	61400	18770
16	73240	87780	110700	136000	164200	187200	188700	163900	144400	108400	59960	18860
17	72550	88660	111500	136900	164900	188000	187700	164200	144600	106400	58640	19010
18	71670	89270	112300	137800	165700	188600	186600	164800	144100	104500	57200	19310
19	71300	90040	113100	138700	166500	189300	185600	165200	143600	102800	55790	19500
20	70320	90860	113900	139700	167200	190200	184500	165700	143400	100900	54350	19830
21	69320	91640	114600	140600	167900	191100	183500	165700	143700	99080	52930	20110
22	69520	92430	115400	141600	168500	191900	182600	165500	144100	97170	51570	20260
23	70250	93180	116200	132700	169500	192500	181700	165100	144200	95370	50220	20430
24	70960	96970	116900	143600	170700	193100	180700	164900	144000	93510	48710	20590
25	71530	94690	117700	144500	171700	193300	180100	164600	143300	92260	47260	20710
26	72250	95410	118600	145400	172600	193700	178900	163800	142500	90860	45540	20880
27	72930	96180	119400	146400	173500	194300	177800	163000	141600	89350	44120	20050
28	73590	96910	120300	147300	174400	194800	176800	161900	140100	87820	42740	21180
29	74320	97600	121100	148300	---	195200	175500	161000	138700	86430	41390	21330
30	75060	98340	122000	149300	---	195600	174000	159800	136900	84940	39960	21490
31	75700	---	122800	150300	---	196000	---	158600	---	83390	38420	---
MAX	75700	98340	122800	150300	174400	196000	196200	172500	157300	135300	81860	36980
MIN	69320	76560	99030	123600	151100	175100	174000	158600	136900	83390	38420	18770
†	4128.10	4133.83	4139.03	4144.12	4148.10	4151.24	4148.03	4145.53	4141.72	4130.18	4114.69	4104.74
‡	+3620	+22640	+24460	+27500	+24100	+21600	+22000	-15400	-21700	-53510	-44970	-16930

CAL YR 1976 MAX 224000 MIN 69320 ‡ -70700
WTR YR 1977 MAX 196200 MIN 18770 ‡ -50590

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR, NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E½SE¼ sec.34, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 1.1 mi (1.8 km) downstream from Lahontan Dam, and 15 mi (24 km) west of Fallon.

DRAINAGE AREA.--1,950 mi^2 (5,050 km^2), approximately (not counting inflow from Truckee Canal).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,040 ft (1,231 m), from topographic map.

REMARKS.--Records good except for period of no gage-height record, Oct. 22 to Mar. 31, which are fair. Flow regulated by Lahontan Reservoir, capacity 295,100 acre-ft (364 hm^3) and other upstream regulations. One diversion, approximately 2,500 acre-ft per year (3.08 hm^3) between gage and Lahontan Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--11 years, 518 ft^3/s (14.67 m^3/s), 390,300 acre-ft/yr (463 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,300 ft^3/s (65.1 m^3/s) July 5, 6, 1967, gage height, 7.71 ft (2.350 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) Nov. 26 to Dec. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft^3/s (33.7 m^3/s), gage height, 4.79 ft (1.460 m); minimum daily discharge, 1.8 ft^3/s (0.051 m^3/s) Nov. 26 to Dec. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	2.4	1.8	2.0	2.2	2.4	91	756	956	921	803	705
2	174	2.4	1.8	2.0	2.2	2.5	316	672	1030	902	803	696
3	2.4	2.4	1.8	2.0	2.2	2.5	330	652	1020	916	819	687
4	2.4	2.4	1.8	2.0	2.2	2.5	370	652	1030	819	819	518
5	2.4	2.4	1.8	2.0	2.2	2.5	428	650	1030	820	816	426
6	2.4	2.4	1.8	2.0	2.2	2.5	434	589	1020	866	705	470
7	2.4	2.2	1.8	2.0	2.2	2.5	481	533	932	913	628	634
8	124	2.2	1.8	2.0	2.2	2.5	534	534	842	937	623	720
9	245	2.2	1.8	2.0	2.2	2.5	530	374	610	996	751	781
10	243	2.2	1.8	2.0	2.2	2.5	529	226	250	995	792	770
11	235	2.2	1.8	2.0	2.2	2.5	528	222	85	988	779	761
12	290	2.2	1.8	2.0	2.2	2.5	533	222	80	1010	780	752
13	383	2.2	1.8	2.0	2.2	2.5	529	150	78	1020	771	706
14	465	2.2	1.8	2.0	2.2	2.5	529	84	81	1020	764	615
15	497	2.2	1.8	2.0	2.2	2.5	532	82	84	1010	762	249
16	497	2.0	1.8	2.1	2.2	2.5	530	79	84	1010	760	1.9
17	497	2.0	1.8	2.1	2.2	2.5	532	77	272	1010	747	1.9
18	497	2.0	1.8	2.1	2.2	2.5	535	78	418	1020	737	1.9
19	528	2.0	1.8	2.1	2.2	2.5	534	76	420	1000	742	1.9
20	587	2.0	1.8	2.1	2.2	2.5	531	259	236	984	735	1.9
21	395	2.0	2.0	2.1	2.2	2.5	474	400	90	1000	662	1.9
22	2.5	2.0	2.0	2.1	2.2	2.5	412	400	94	923	639	1.9
23	2.5	2.0	2.0	2.1	2.4	2.5	411	398	234	874	772	1.9
24	2.5	2.0	2.0	2.1	2.4	2.5	414	393	444	813	768	1.9
25	2.5	2.0	2.0	2.1	2.4	2.5	417	543	533	749	759	1.9
26	2.5	1.8	2.0	2.2	2.4	2.5	512	598	542	773	755	1.9
27	2.5	1.8	2.0	2.2	2.4	2.5	544	644	698	823	746	1.9
28	2.5	1.8	2.0	2.2	2.4	2.5	540	716	846	819	732	1.9
29	2.5	1.8	2.0	2.2	---	2.5	645	715	824	814	730	1.9
30	2.4	1.8	2.0	2.2	---	2.5	756	717	859	813	722	1.9
31	2.4	---	2.0	2.2	---	2.5	---	714	---	806	714	---
TOTAL	6098.8	63.2	58.0	64.2	62.8	77.4	14481	13205	15722	28364	23135	9518.5
MEAN	197	2.11	1.87	2.07	2.24	2.50	483	426	524	915	746	317
MAX	587	2.4	2.0	2.2	2.4	2.5	756	756	1030	1020	819	781
MIN	2.4	1.8	1.8	2.0	2.2	2.4	91	76	78	749	623	1.9
AC-FT	12100	125	115	127	125	154	28720	26190	31180	56260	45890	18880

CAL YR 1976 TOTAL 130537.5 MEAN 357 MAX 960 MIN 1.8 AC-FT 258900
WTR YR 1977 TOTAL 110849.9 MEAN 304 MAX 1030 MIN 1.8 AC-FT 219900

OUTFALL FROM NEWLANDS PROJECT INTO STILLWATER NATIONAL WILDLIFE REFUGE, NEAR FALLON, NV

The following six canals, which are equipped with water-stage recorders, combined with 10312280 Carson River below Fallon (see next page), measure the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink. Records are poor.

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV.--Lat 39°28'25", long 118°35'50", in NE¼NE¼ sec.34, T.19 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 0.2 mi (0.6 km) downstream from a channel to Stillwater Slough and 10 mi (16 km) east of Fallon.

10312220 STILLWATER SLOUGH CUTOFF DRAIN NEAR STILLWATER, NV.--Lat 39°33'05", long 118°31'40", in SE¼SW¼ sec.32, T.20 N., R.31 E., Churchill County, Hydrologic Unit 16050203, on left bank 0.9 mi (1.4 km) downstream from Stillwater Slough and 2.3 mi (3.7 km) north-northeast of Stillwater.

10312240 PAIUTE DIVERSION DRAIN NEAR STILLWATER, NV.--Lat 39°33'30", long 118°34'20", in SW¼NW¼ sec.36, T.20 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 0.1 mi (0.2 km) downstream from diversion out of Paiute Drain and 3 mi (5 km) northwest of Stillwater. Discontinued April 14.

10312260 INDIAN LAKES CANAL NEAR FALLON, NV.--Lat 39°34'30", long 118°41'30", in NW¼NE¼ sec.26, T.20 N., R.29 E., Churchill County, Hydrologic Unit 16050203, on right bank between 2 lakes 8 mi (13 km) northeast of Fallon.

10312265 INDIAN LAKES CANAL BELOW EAST LAKE, NV.--Lat 39°36'16", long 118°34'41", in NE¼ sec.14, T.20 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on left bank 500 ft (152 m) downstream from East Lake and 6.1 mi (9.8 km) north-northwest of Stillwater. Established April 15, 1977.

10312270 PAIUTE DRAIN AT WILDLIFE ENTRANCE NEAR STILLWATER, NV.--Lat 39°36'33", long 118°33'19", in SW¼SW¼ sec.7, T.20 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on left bank 6.1 mi (9.8 km) north-northwest of Stillwater. Established April 15, 1977.

REMARKS.--Records of monthly discharge of these canals, published as a group, are available from October 1966 to current year. Monthly measurements of specific conductance and water temperature for station numbers 10312210, 10312220, 10312260, and 10312270 are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

OUTFALL, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Month	Stillwater Diversion Canal	Stillwater Slough Cutoff Drain	Paiute Diversion Drain	Indian Lakes Canal near Fallon	Indian Lakes Canal below East Lake	Paiute Drain near Stillwater
October	1,440	1,100	116	565	--	--
November	727	475	61	836	--	--
December	421	297	39	427	--	--
CAL YR 1976	16,860	11,950	4,510	6,740	--	--
January	237	245	49	326	--	--
February	234	221	14	190	--	--
March	271	186	17	144	--	--
April	601	606	--	232	--	--
May	582	1,020	--	280	0	398
June	1,470	996	--	173	38	386
July	1,070	1,300	--	314	0	583
August	887	1,250	--	290	0	474
September	978	602	--	370	0	171
WTR YR 1975-76	8,920	8,300	--	4,150	--	--

10312280 CARSON RIVER BELOW FALLON, NV

LOCATION.--Lat 39°40'10", long 118°39'20", in SE¼SW¼ sec.19, T.21 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on right bank 15 mi (24 km) north-northeast of Fallon.

PERIOD OF RECORD.--October 1966 to June 1967 (monthly discharge only), July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,880 ft (1,183 m), from topographic map.

REMARKS.--Records good. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir, capacity, 295,100 acre-ft (364 hm³). Records for this station together with the canals on preceding page represent the total outfall from Newlands Project into Stillwater Wildlife Management Area, Canvasback Gun Club, and Carson Sink.

AVERAGE DISCHARGE.--11 years, 41.2 ft³/s (1.167 m³/s), 29,850 acre-ft/yr (36.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) July 9, 1967, gage height, 6.60 ft (2.012 m); no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft³/s (1.05 m³/s) Oct. 27, gage height, 1.74 ft (0.530 m); no flow for many days in April to Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.9	.42	.44	.70	.28	.13	.50	.52	.00	.00	.00
2	1.6	1.6	.47	.44	.70	.27	.14	1.4	.04	.00	.00	.00
3	3.0	1.5	.53	.50	.70	.23	.14	.41	.00	.00	.00	.00
4	4.5	1.2	.55	.50	.70	.18	.15	.20	.00	.00	.00	.00
5	4.6	1.3	.50	.50	.70	.17	.15	.15	1.1	.00	.00	.00
6	2.4	1.3	.60	.50	.70	.17	.15	.03	3.5	.00	.00	.00
7	1.6	1.2	.67	.50	.70	.15	.16	.00	2.4	.00	.00	.00
8	1.4	1.2	.76	.50	.70	.14	.28	.02	.84	.00	.00	.00
9	1.9	1.1	.96	.50	.70	.13	.63	.27	.56	.00	.00	.00
10	3.1	1.0	.70	.50	.70	.09	.87	.51	2.6	.00	.00	.00
11	3.4	.92	.60	.60	.70	.08	.26	.21	1.2	.00	.00	.00
12	3.3	.85	.54	.60	.70	.10	.19	.53	.62	.00	.00	.00
13	2.5	.72	.56	.60	.70	.09	.26	1.3	.17	.00	.00	.00
14	1.9	.72	.54	.60	.70	.10	.28	1.5	.01	.00	.00	.00
15	1.9	.72	.54	.60	.70	.11	.25	.54	.00	.00	.00	.00
16	1.9	.66	.58	.60	.70	.11	.31	.23	.00	.00	.00	.00
17	2.0	.60	.54	.60	.70	.10	.22	.14	.00	.00	.00	.00
18	2.1	.60	.54	.60	.70	.08	.10	.08	.00	.00	.00	.00
19	3.8	.54	.54	.60	.70	.09	.05	.01	.00	.00	.00	.00
20	6.3	.54	.51	.60	.70	.06	.04	.00	.00	.00	.00	.00
21	12	.49	.49	.60	.71	.06	.06	.00	.00	.00	.00	.00
22	7.5	.49	.49	.70	.78	.08	.07	.00	.00	.00	.00	.00
23	5.9	.49	.49	.70	.63	.09	.02	.00	.00	.00	.00	.00
24	2.7	.49	.49	.70	.50	.07	.18	.00	.00	.00	.00	.00
25	1.7	.49	.44	.70	.46	.07	.12	.26	.00	.00	.00	.00
26	2.4	.40	.44	.70	.44	.04	.02	1.3	.00	.00	.00	.00
27	30	.38	.44	.70	.35	.05	.00	.49	.00	.00	.00	.00
28	11	.30	.44	.70	.32	.01	.00	.26	.00	.00	.00	.00
29	4.5	.15	.44	.70	---	.01	.02	.13	.00	.00	.00	.00
30	3.1	.11	.44	.70	---	.03	.00	.85	.00	.00	.00	.00
31	2.3	---	.44	.70	---	.10	---	.73	---	.00	.00	---
TOTAL	139.1	23.96	16.69	18.48	18.19	3.34	5.25	12.05	13.56	.00	.00	.00
MEAN	4.49	.80	.54	.60	.65	.11	.18	.39	.45	.000	.000	.000
MAX	30	1.9	.96	.70	.78	.28	.87	1.5	3.5	.00	.00	.00
MIN	1.4	.11	.42	.44	.32	.01	.00	.00	.00	.00	.00	.00
AC-FT	276	48	33	37	36	6.6	10	24	27	.00	.00	.00

CAL YR 1976 TOTAL 1470.08 MEAN 4.02 MAX 30 MIN .00 AC-FT 2920
WTR YR 1977 TOTAL 250.62 MEAN .69 MAX 30 MIN .00 AC-FT 497

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK, NEAR DEETH, NV

LOCATION.--Lat 41°15'10", long 115°15'20", in NE¼SE¼ sec.24, T.39 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi (2 km) upstream from Hot Springs Creek, 7 mi (11 km) north of Cross Ranch, and 13 mi (21 km) north of Deeth.

DRAINAGE AREA.--415 mi^2 (1,075 km^2).

PERIOD OF RECORD.--October 1943 to current year. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from river-profile map. Prior to Nov. 3, 1950, at site 1.2 mi (1.9 km) downstream at different datum. Nov. 3, 1950, to Sept. 30, 1967, water-stage recorder at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for period of no gage-height record, Oct. 27 to Dec. 22, which are poor. Several diversions for irrigation of 7,150 acres (28.9 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Station."

AVERAGE DISCHARGE.--34 years, 61.8 ft^3/s (1.750 m^3/s), 44,770 acre-ft/yr (55.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft^3/s (119 m^3/s) Feb. 12, 1962, gage height, 7.63 ft (2.326 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of each day Aug. 27-30, Sept. 2-5, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 127 ft^3/s (3.60 m^3/s) June 9, gage height, 3.05 ft (0.930 m), no peak above base of 200 ft^3/s (5.66 m^3/s); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Sept. 3, 6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	15	12	8.8	8.2	16	19	62	50	15	2.7	1.6
2	11	15	11	8.7	9.0	15	19	64	40	17	2.7	1.5
3	13	15	10	9.6	9.3	13	18	64	43	20	2.5	1.4
4	19	15	10	10	9.3	17	18	59	50	23	2.6	1.5
5	23	15	9.5	10	9.0	14	18	50	52	22	2.7	1.5
6	20	16	9.5	9.2	8.8	13	19	51	54	18	2.7	1.4
7	18	16	10	8.5	9.2	15	36	51	58	14	2.5	1.5
8	17	17	10	8.0	9.4	15	60	53	64	12	2.4	1.5
9	17	17	9.0	8.0	8.8	16	82	56	105	10	2.3	1.4
10	17	18	9.0	8.5	9.2	21	94	55	116	8.8	3.4	1.5
11	17	18	8.5	9.0	10	16	78	54	98	8.4	3.3	1.5
12	16	17	8.8	9.5	10	15	77	48	96	7.6	3.2	1.5
13	16	17	8.8	10	11	14	76	40	90	7.0	3.2	1.6
14	16	17	8.8	10	12	14	82	36	75	6.4	3.3	1.7
15	17	19	8.5	10	12	16	76	36	64	6.0	3.3	2.4
16	16	18	8.5	10	13	14	69	40	58	5.9	3.3	2.4
17	16	17	8.5	10	14	14	71	50	51	6.3	3.5	2.9
18	15	17	8.2	9.2	15	14	81	44	46	6.0	3.6	3.0
19	14	17	7.8	9.2	16	13	79	37	41	5.8	3.1	3.0
20	14	17	8.0	9.0	16	14	75	35	42	6.3	3.5	3.3
21	14	17	8.3	7.8	20	14	71	33	42	6.6	3.1	3.2
22	14	16	8.5	7.8	18	14	70	35	41	6.4	2.2	3.4
23	15	16	8.6	8.8	20	16	70	41	36	6.2	2.0	3.4
24	15	15	9.0	10	22	18	73	53	35	6.0	1.7	3.3
25	15	15	8.5	11	23	22	77	57	30	5.5	1.7	3.1
26	15	13	8.5	9.5	16	24	79	61	27	4.4	1.8	3.0
27	15	12	8.5	9.0	14	25	81	66	24	3.8	1.9	3.0
28	15	13	9.1	9.5	14	25	80	67	20	3.7	1.8	2.9
29	15	13	9.0	10	---	22	78	64	18	3.2	1.8	2.7
30	15	14	9.3	11	---	22	74	60	16	3.1	1.6	2.6
31	15	---	8.8	12	---	21	---	57	---	2.7	1.8	---
TOTAL	484.6	477	280.5	291.6	366.2	522	1900	1579	1582	277.1	81.2	68.7
MEAN	15.6	15.9	9.05	9.41	13.1	16.8	63.3	50.9	52.7	8.94	2.62	2.29
MAX	23	19	12	12	23	25	94	67	116	23	3.6	3.4
MIN	9.6	12	7.8	7.8	8.2	13	18	33	16	2.7	1.6	1.4
AC-FT	961	946	556	578	726	1040	3770	3130	3140	550	161	136

CAL YR 1976 TOTAL 19412.3 MEAN 53.0 MAX 288 MIN 1.4 AC-FT 38500
WTR YR 1977 TOTAL 7909.9 MEAN 21.7 MAX 116 MIN 1.4 AC-FT 15690

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV

LOCATION.--Lat 40°41'30", long 115°28'30", in NE¼ sec.6, T.32 N., R.58 E., Elko County, Hydrologic Unit 16040101, in Humboldt National Forest, on left bank 600 ft (180 m) upstream from Lamoille Creek bridge, at mouth of canyon, upstream from McDermitt ditch, and 3 mi (5 km) south of Lamoille.

DRAINAGE AREA.--25 mi^2 (65 km^2), approximately.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Concrete control since Oct. 30, 1950. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Prior to Oct. 1, 1943, nonrecording gages at various sites nearby at different datums. Oct. 1 to Jan. 16, 1975, water-stage recorder at site 600 ft (183 m) downstream at datum 4.28 ft (1.305 m) lower.

REMARKS.--Records good except those for winter months, which are fair. Records are now obtained upstream from McDermitt ditch and therefore include that flow, which as previously combined with these figures to give total flow. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--41 years (1915-22, 1943-77) 43.5 ft^3/s (1.232 m^3/s), 31,520 acre-ft/yr (38.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 794 ft^3/s (22.5 m^3/s) June 4, 1957, caused by failure of diversion dam 200 ft (60 m) upstream, but may have been exceeded in June 1917, when gage washed out; minimum, 0.10 ft^3/s (0.003 m^3/s) Feb. 24, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 359 ft^3/s (10.2 m^3/s) June 6 (2030 hrs) gage height, 4.67 ft (1.423 m), no other peak above base of 310 ft^3/s (8.78 m^3/s); minimum daily 3.5 ft^3/s (0.10 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	6.4	4.4	4.7	4.9	5.6	76	180	48	9.1	7.1
2	26	11	6.8	4.4	4.5	4.7	5.6	64	213	55	8.7	6.9
3	32	11	6.5	4.5	4.3	4.6	5.7	61	227	49	8.6	6.8
4	24	11	6.5	4.4	4.2	4.6	5.8	56	234	45	8.6	6.8
5	23	10	6.4	4.1	4.2	4.8	6.1	52	264	43	8.6	6.7
6	23	10	6.5	4.2	4.4	5.0	6.6	48	285	38	8.2	6.7
7	23	9.8	6.5	4.2	4.5	5.2	7.6	46	284	34	8.1	6.6
8	23	9.8	6.4	4.3	4.3	5.2	8.9	43	254	31	7.8	6.5
9	23	9.6	6.4	4.4	4.0	5.2	11	43	237	29	7.6	6.5
10	22	9.5	6.4	4.5	3.7	6.0	12	40	188	26	7.5	6.5
11	22	9.3	6.4	4.6	3.5	6.1	15	39	179	24	7.4	6.5
12	21	9.1	6.5	4.7	3.7	6.2	18	38	171	22	7.2	6.4
13	20	8.9	6.4	4.5	4.0	6.3	20	39	158	21	7.2	6.4
14	20	8.7	6.4	4.4	4.2	6.0	21	44	144	20	7.2	6.3
15	20	8.6	6.4	4.4	4.5	5.7	22	44	134	19	6.9	6.3
16	19	8.7	6.4	4.3	4.5	5.4	29	43	128	17	6.8	6.4
17	19	8.9	6.8	4.4	4.5	5.3	38	42	119	17	7.1	6.7
18	17	8.9	6.4	4.5	4.5	5.6	40	40	106	16	9.1	6.7
19	16	8.6	5.6	4.6	4.5	5.6	39	39	100	15	9.1	6.7
20	16	8.4	5.2	4.6	4.5	5.3	40	43	93	14	14	6.8
21	15	8.4	5.1	4.6	4.6	5.3	48	47	92	14	9.8	6.9
22	14	8.2	5.1	4.5	4.7	5.3	55	56	90	13	8.4	6.9
23	14	7.9	5.0	4.4	4.9	5.3	65	60	88	13	7.9	7.2
24	13	7.6	4.9	4.4	4.7	5.5	75	58	84	13	7.6	7.2
25	13	7.5	4.8	4.5	4.5	5.4	83	59	81	13	7.5	7.2
26	13	8.1	4.6	4.5	4.5	5.4	89	61	80	12	8.4	7.2
27	12	7.0	4.3	4.7	4.6	5.4	93	63	68	11	8.4	7.2
28	12	6.4	4.1	4.9	4.8	5.4	97	62	62	10	7.8	7.2
29	12	6.4	4.1	5.0	---	5.4	94	65	55	9.8	7.5	7.6
30	12	6.4	4.2	5.0	---	5.5	90	71	51	9.5	7.2	8.0
31	12	---	4.3	4.9	---	5.6	---	103	---	9.3	7.1	---
TOTAL	566	264.7	177.8	139.8	122.5	167.2	1145.9	1645	4449	710.6	252.4	204.9
MEAN	18.3	8.82	5.74	4.51	4.38	5.39	38.2	53.1	148	22.9	8.14	6.83
MAX	32	11	6.8	5.0	4.9	6.3	97	103	285	55	14	8.0
MIN	12	6.4	4.1	4.1	3.5	4.6	5.6	38	51	9.3	6.8	6.3
AC-FT	1120	525	353	277	243	332	2270	3260	8820	1410	501	406

CAL YR 1976 TOTAL 14281.0 MEAN 39.0 MAX 253 MIN 4.1 AC-FT 28330
WTR YR 1977 TOTAL 9845.8 MEAN 27.0 MAX 285 MIN 3.5 AC-FT 19530

10317400 NORTH FORK HUMBOLDT RIVER NEAR NORTH FORK, NV

LOCATION.--Lat 41°34'30", long 115°54'40", in NW¼SE¼ sec.32, T.43 N., R.54 E., Elko County, Hydrologic Unit 16040102, on right bank *above all diversions, 0.7 mi (1.1 km) downstream from Fry Canyon, 1 mi (2 km) upstream from Doheny* Ranch, and 9 mi (14 km) northwest of North Fork.

DRAINAGE AREA.--11 mi^2 (28 km^2), approximately.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1965, August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--12 years, 11.0 ft^3/s (0.312 m^3/s), 7,970 acre-ft/yr (9.83 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 170 ft^3/s (4.81 m^3/s) June 7, 1975, gage height, 4.10 ft (1.250 m); maximum gage height, 4.43 ft (1.350 m) Jan. 22, 1970; minimum discharge, no flow at times in Aug. and Sept. 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft^3/s (1.39 m^3/s) Apr. 8, gage height, 2.77 ft (0.844 m), no peak above base of 65 ft^3/s (1.84 m^3/s); no flow at times in Aug. and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.2	.64	.13	.35	.46	3.3	17	19	3.0	.43	.06
2	4.7	1.2	.62	.18	.37	.52	3.1	15	20	3.5	.41	.02
3	7.3	1.1	.60	.22	.38	.56	2.7	13	20	3.7	.35	.00
4	4.8	1.1	.64	.25	.38	.55	4.0	13	20	3.1	.40	.00
5	3.8	1.0	.64	.28	.38	.59	9.1	11	20	2.6	.46	.00
6	3.2	1.0	.55	.30	.37	.63	16	10	20	2.4	.37	.00
7	2.8	1.0	.62	.31	.40	.77	23	9.8	20	2.2	.32	.00
8	2.5	1.0	.62	.24	.39	.78	32	10	20	2.1	.29	.00
9	2.2	.94	.65	.23	.36	.97	27	11	20	1.8	.20	.00
10	2.1	.93	.60	.28	.34	.93	21	11	19	1.8	.17	.00
11	2.0	.93	.60	.25	.29	1.0	20	12	17	1.7	.10	.00
12	1.9	.93	.56	.25	.25	1.1	21	13	14	1.5	.06	.00
13	1.8	.85	.58	.24	.22	1.1	19	14	12	1.4	.11	.00
14	1.7	.99	.54	.23	.21	1.1	16	14	11	1.3	.07	.02
15	1.6	.99	.54	.23	.19	1.2	16	15	9.9	1.3	.04	.02
16	1.6	1.1	.46	.22	.24	1.0	21	14	9.0	1.1	.05	.03
17	1.5	1.1	.40	.22	.30	1.2	20	14	8.1	1.0	.04	.16
18	1.4	1.1	.38	.25	.35	1.2	17	14	7.6	.99	.24	.05
19	1.3	1.1	.33	.21	.38	1.2	15	13	7.9	.93	.09	.06
20	1.3	1.0	.22	.20	.42	1.2	15	13	7.5	.90	.01	.22
21	1.3	1.0	.20	.16	.52	1.2	16	13	7.0	.89	.04	.17
22	1.3	.96	.20	.20	.50	2.0	18	14	6.0	.86	.00	.16
23	1.3	.85	.22	.25	.45	4.5	19	15	5.4	.87	.00	.16
24	1.2	.80	.29	.18	.48	5.5	20	16	5.0	.95	.00	.20
25	1.4	.82	.30	.20	.49	4.8	21	15	4.6	.82	.08	.17
26	1.4	.60	.30	.23	.47	5.0	20	15	4.2	.75	.59	.06
27	1.4	.59	.34	.25	.46	4.9	19	17	3.9	.67	.29	.00
28	1.3	.57	.35	.28	.47	4.5	18	16	3.7	.62	.28	.00
29	1.4	.60	.27	.30	---	3.9	18	16	3.4	.54	.17	.12
30	1.3	.61	.17	.35	---	3.6	18	16	3.1	.56	.07	.19
31	1.3	---	.11	.37	---	3.3	---	16	---	.52	.10	---
TOTAL	65.7	27.96	13.54	7.49	10.41	61.26	508.2	425.8	348.3	46.37	5.83	1.87
MEAN	2.12	.93	.44	.24	.37	1.98	16.9	13.7	11.6	1.50	.19	.062
MAX	7.3	1.2	.65	.37	.52	5.5	32	17	20	3.7	.59	.22
MIN	1.2	.57	.11	.13	.19	.46	2.7	9.8	3.1	.52	.00	.00
AC-FT	130	55	27	15	21	122	1010	845	691	92	12	3.7

CAL YR 1976 TOTAL 3669.25 MEAN 10.0 MAX 88 MIN .11 AC-FT 7280
WTR YR 1977 TOTAL 1522.73 MEAN 4.17 MAX 32 MIN .00 AC-FT 3020

10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE, NEAR HALLECK, NV

LOCATION.--Lat 41°10'50", long 115°29'35", in SE¼ sec.13, T.38 N., R.57 E., Elko County, Hydrologic Unit 16040102, on right bank 500 ft (150 m) downstream from Devils Gate Canyon, 16 mi (26 km) north of Halleck, and 26 mi (42 km) upstream from mouth. Prior to Aug. 8, 1975, at site 500 ft (150 m) downstream.

DRAINAGE AREA.--830 mi² (2,150 km²), approximately.

PERIOD OF RECORD.--October 1913 to December 1921, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1913 (M), 1946.

GAGE.--Water-stage recorder. Datum of gage is 5,370 ft (1,636.8 m) above mean sea level (Geological Survey planetable bench mark). November 1913 to September 1921 at site 0.1 mi (0.2 km) upstream at different datum. Oct. 16, 1943, to Mar. 20, 1970, at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower. Mar. 21, 1970, to Oct. 11, 1973, at site 250 ft (80 m) downstream at datum 2.00 ft (0.610 m) lower. Oct. 12, 1973 to Aug. 7, 1975 at site 500 ft (150 m) downstream at datum 2.00 ft (0.610 m) lower.

REMARKS.--Records poor. Many diversions for irrigation of 16,600 acres (67.2 km²), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--42 years, 73.4 ft³/s (2.079 m³/s), 53,180 acre-ft/yr (65.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s (295 m³/s) Feb. 11, 1962, gage height, 16.12 ft (4.913 m), from high-water mark in well, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) July 26, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft³/s (2.21 m³/s) June 13, gage height 3.00 ft (0.914 m), maximum gage height 3.93 ft (1.198 m) Feb. 8 (backwater from ice), no peak above base of 170 ft³/s (4.81 m³/s); minimum daily, 3.8 ft³/s (0.108) July 26, Aug. 12, 13, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	11	7.5	12	28	33	20	17	8.7	4.7	4.5
2	19	17	10	7.6	11	30	33	18	15	8.7	4.7	4.5
3	25	17	9.0	7.8	11	29	32	19	14	10	4.7	4.5
4	27	18	8.0	8.0	11	26	31	23	13	12	4.6	4.5
5	24	18	7.6	8.0	12	27	34	24	11	10	4.5	4.5
6	21	19	8.0	6.3	13	26	47	26	8.7	10	4.8	4.5
7	19	19	8.5	5.8	14	29	57	28	8.3	8.7	4.7	4.3
8	19	20	8.5	5.9	14	29	58	27	8.7	7.5	4.0	4.3
9	18	19	8.0	6.0	15	32	50	25	13	7.5	4.2	4.3
10	18	20	6.8	6.4	15	29	52	25	32	7.1	4.7	4.3
11	18	20	6.6	7.2	17	25	50	20	51	6.3	4.4	4.5
12	17	19	7.0	8.0	19	34	49	20	67	5.1	3.8	4.5
13	16	18	7.1	8.0	19	35	44	21	73	4.9	3.8	4.3
14	16	18	7.2	7.7	19	30	43	22	47	4.7	4.3	4.5
15	16	21	6.6	7.6	20	29	38	22	39	4.6	4.0	4.5
16	16	20	6.4	8.0	21	31	36	21	33	4.4	3.8	4.3
17	16	20	6.6	9.2	24	31	35	20	27	4.3	4.0	5.5
18	16	19	6.6	11	26	29	32	20	25	4.2	5.9	5.1
19	16	19	6.2	11	27	29	34	20	23	4.0	4.7	4.7
20	16	20	6.0	11	29	28	32	20	23	4.0	4.7	5.1
21	17	19	6.0	12	33	28	28	19	42	4.2	38	5.5
22	17	18	6.4	12	33	29	27	15	54	4.3	13	5.1
23	17	17	6.8	11	30	30	26	12	40	4.7	10	5.5
24	17	18	7.0	10	29	32	25	17	30	4.8	7.1	6.7
25	17	18	7.4	10	28	39	23	22	23	4.4	5.9	6.7
26	17	17	7.6	10	28	37	24	26	17	3.8	5.9	6.7
27	17	14	7.3	10	28	36	23	26	14	3.9	5.9	6.7
28	17	10	7.1	10	26	33	22	23	12	4.3	5.1	6.7
29	17	10	7.1	11	---	32	22	21	10	4.9	4.7	7.1
30	17	11	7.4	11	---	32	22	21	8.7	4.6	4.5	7.9
31	17	---	7.4	11	---	33	---	19	---	4.8	4.5	---
TOTAL	555	530	229.2	276.0	584	947	1062	662	794.4	185.4	193.6	155.8
MEAN	17.9	17.7	7.39	8.90	20.9	30.5	35.4	21.4	26.6	5.98	6.25	5.19
MAX	27	21	11	12	33	39	58	28	73	12	38	7.9
MIN	15	10	6.0	5.8	11	25	22	12	8.3	3.8	3.8	4.3
AC-FT	1100	1050	455	547	1160	1880	2110	1310	1590	368	384	309

CAL YR 1976 TOTAL 20119.9 MEAN 55.0 MAX 550 MIN 3.6 AC-FT 39910
WTR YR 1977 TOTAL 6179.4 MEAN 16.9 MAX 73 MIN 3.8 AC-FT 12260

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'00", long 115°38'00", in SE¼NE¼ sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank 1 mi (2 km) southwest of Ryndon, 1.5 mi (2.4 km) upstream from Jackson Creek, 5 mi (8 km) downstream from North Fork, and 10 mi (16 km) northeast of Elko.

DRAINAGE AREA.--2,800 mi^2 (7,252 km^2), approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft (1,567.379 m) above mean sea level, datum of 1929. June 1895 to October 1902, nonrecording gage at site 11 mi (18 km) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of 95,800 acres (388 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--40 years, 236 ft^3/s (6.684 m^3/s), 171,000 acre-ft/yr (211 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,070 ft^3/s (200 m^3/s) Feb. 13, 1962, gage height, 12.3 ft (3.75 m); no flow for many days in August and September 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 425 ft^3/s (12.0 m^3/s) June 11, gage height, 4.14 ft (1.262 m); minimum, 0.67 ft^3/s (0.019 m^3/s) Sept. 3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	49	47	30	22	92	110	70	92	54	2.1	.76
2	25	50	44	35	30	88	110	67	77	65	1.9	.71
3	30	51	41	28	38	82	110	65	73	50	1.8	.71
4	44	51	39	27	35	94	112	64	79	50	1.9	.71
5	48	53	36	25	37	91	110	61	103	47	2.1	.71
6	44	54	34	25	33	85	114	65	144	43	2.6	.71
7	39	55	36	24	38	98	126	70	193	38	2.2	.71
8	36	54	38	25	48	105	140	73	256	34	1.8	.71
9	36	54	39	26	40	115	140	79	367	28	1.7	.71
10	36	54	34	27	45	105	140	76	410	24	1.5	.76
11	36	54	32	28	47	112	138	76	417	17	1.5	.76
12	36	53	33	29	54	108	138	74	385	15	1.5	.76
13	35	52	32	29	54	138	138	70	352	12	1.4	.76
14	35	56	30	28	55	107	144	64	306	10	1.4	.84
15	34	57	28	28	59	112	137	59	243	11	1.4	.84
16	35	62	26	29	68	121	119	52	208	8.7	1.3	.99
17	35	60	25	32	73	124	103	59	187	7.4	1.5	1.1
18	35	60	26	29	70	110	114	67	158	7.1	1.5	.99
19	36	61	26	30	79	112	105	74	137	6.1	1.4	1.1
20	44	62	24	28	85	115	86	88	126	5.1	1.3	1.1
21	42	59	23	19	89	110	94	92	149	4.6	1.3	1.1
22	41	56	24	14	88	108	92	74	156	4.2	1.2	1.1
23	41	48	27	14	102	110	91	71	161	3.8	1.2	1.1
24	43	47	29	43	100	112	89	76	124	3.6	1.2	1.2
25	45	54	31	52	100	115	86	102	103	3.2	1.2	1.1
26	45	49	31	58	98	115	85	130	85	2.8	1.2	1.2
27	45	47	29	45	92	113	83	145	82	2.6	1.2	1.2
28	46	50	28	40	86	114	83	144	88	2.5	1.2	1.2
29	47	57	28	40	---	115	71	137	79	2.1	.99	1.3
30	47	48	28	45	---	108	70	115	65	2.1	.76	1.3
31	48	---	30	57	---	110	---	105	---	2.1	.76	---
TOTAL	1207	1617	978	989	1765	3344	3278	2564	5405	566.0	46.01	28.24
MEAN	38.9	53.9	31.5	31.9	63.0	108	109	82.7	180	18.3	1.48	.94
MAX	48	62	47	58	102	138	144	145	417	65	2.6	1.3
MIN	18	47	23	14	22	82	70	52	65	2.1	.76	.71
AC-FT	2390	3210	1940	1960	3500	6630	6500	5090	10720	1120	91	56

CAL YR 1976 TOTAL 58903.30 MEAN 161 MAX 958 MIN 1.4 AC-FT 116800
WTR YR 1977 TOTAL 21787.25 MEAN 59.7 MAX 417 MIN .71 AC-FT 43220

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK, NEAR ELKO, NV

LOCATION.--40°41'05", long 115°48'45", in NW¼SW¼ sec.5, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank 1.5 mi (2.4 km) upstream from Dixie Creek and 10.5 mi (16.9 km) south of Elko.

DRAINAGE AREA.--1,150 mi^2 (2,978 km^2), approximately.

PERIOD OF RECORD.--October 1948 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1284: 1952 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,140 ft (1,567 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Diversions for irrigation of 36,200 acres (147 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--29 years, 116 ft^3/s (3.285 m^3/s), 84,040 acre-ft/yr (104 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft^3/s (78.2 m^3/s) Feb. 11, 1962, gage height, 7.2 ft (2.19 m), from rating curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 0.10 ft^3/s (0.003 m^3/s) Sept. 9, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 782 ft^3/s (22.1 m^3/s), June 8, (0300 hr) gage height, 4.26 ft (1.298 m), no other peak above base of 400 ft^3/s (11.3 m^3/s); minimum, 5.7 ft^3/s (0.16 m^3/s) Aug. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	35	25	21	24	33	37	140	248	72	6.9	9.9
2	32	35	28	22	24	32	38	119	387	84	6.8	9.2
3	57	36	28	22	23	31	36	100	443	87	6.6	8.2
4	54	37	29	22	24	31	36	95	491	75	6.9	7.5
5	49	37	30	21	24	32	38	85	536	70	8.3	7.2
6	47	36	27	20	26	33	41	80	631	58	7.9	6.9
7	44	34	26	19	27	33	42	78	654	44	8.6	6.7
8	47	33	27	19	27	34	47	69	685	40	8.4	6.4
9	44	34	26	19	29	35	70	69	659	34	8.0	6.5
10	43	35	25	19	31	36	73	71	638	32	7.7	6.7
11	43	33	23	20	34	37	76	75	510	32	6.7	6.7
12	43	34	23	21	36	38	78	67	480	34	7.3	6.7
13	42	33	23	21	40	38	85	56	425	28	7.6	6.7
14	42	35	22	21	45	37	87	50	372	27	7.5	6.8
15	42	38	21	20	48	36	80	50	325	25	8.1	7.2
16	42	38	21	20	47	36	75	57	294	22	7.4	7.0
17	42	38	20	20	45	37	90	68	272	23	8.0	8.0
18	43	36	20	20	45	36	100	85	249	23	11	9.0
19	43	35	20	20	44	36	90	94	222	21	12	9.0
20	40	33	20	21	43	34	85	91	208	16	27	8.5
21	39	31	20	21	43	34	80	89	195	11	31	8.8
22	40	33	21	21	43	37	87	91	172	9.8	17	8.8
23	39	31	21	21	43	38	95	114	160	10	14	8.8
24	41	30	21	21	43	41	111	157	145	12	13	8.8
25	39	28	21	21	40	40	131	199	138	12	12	8.7
26	39	25	21	21	38	38	134	188	138	10	12	8.4
27	38	23	20	22	36	40	137	211	117	8.7	13	8.4
28	34	24	19	23	34	38	131	205	98	7.5	14	8.4
29	37	24	19	23	---	36	146	182	88	7.1	13	8.4
30	37	25	20	24	---	33	149	173	80	8.0	12	9.1
31	37	---	20	24	---	34	---	179	---	7.7	11	---
TOTAL	1280	979	707	650	1006	1104	2505	3387	10060	950.8	340.7	237.4
MEAN	41.3	32.6	22.8	21.0	35.9	35.6	83.5	109	335	30.7	11.0	7.91
MAX	57	38	30	24	48	41	149	211	685	87	31	9.9
MIN	21	23	19	19	23	31	36	50	80	7.1	6.6	6.4
AC-FT	2540	1940	1400	1290	2000	2190	4970	6720	19950	1890	676	471

CAL YR 1976 TOTAL 32400.3 MEAN 88.5 MAX 443 MIN 9.1 AC-FT 64270
WTR YR 1977 TOTAL 23206.9 MEAN 63.6 MAX 685 MIN 6.4 AC-FT 46030

10321000 HUMBOLDT RIVER NEAR CARLIN, NV

LOCATION.--Lat 40°43'40", long 116°00'30", in SE¼SE¼ sec.21, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, on right bank 1.0 mi (1.6 km) downstream from Tonka Creek, 4.5 mi (7.2 km) southwest of Moleen, 5 mi (8 km) upstream from Susie Creek, 5.5 mi (8.8 km) east of Carlin, and 15 mi (24 km) southwest of Elko.

DRAINAGE AREA.--4,310 mi^2 (11,160 km^2), approximately.

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft (1,503.246 m) above mean sea level (levels by State Highway Department).

REMARKS.--Records good. Many diversions for irrigation of 143,000 acres (579 km^2), Humboldt Decree, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--34 years, 342 ft^3/s (9.684 m^3/s), 247,800 acre-ft/yr (306 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft^3/s (174 m^3/s) Feb. 14, 1962, gage height, 10.21 ft (3.112 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 16, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 28, 1910, estimated to have reached 15,000 ft^3/s (425 m^3/s), based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) June 7, gage height, 4.47 ft (1.362 m); minimum, 8.8 ft^3/s (0.25 m^3/s) Aug. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	87	72	48	56	126	154	199	252	148	12	16
2	44	85	70	49	58	125	155	188	349	148	11	15
3	68	86	65	47	56	115	153	169	422	140	11	14
4	77	88	62	44	54	112	152	160	472	125	12	13
5	75	90	58	42	55	120	153	155	520	110	13	13
6	75	90	54	38	58	116	156	149	635	95	12	12
7	81	89	56	37	60	132	159	149	804	84	12	12
8	82	89	58	38	61	141	163	142	842	75	11	11
9	73	90	56	39	63	146	181	139	793	68	12	11
10	82	91	50	41	65	147	206	143	810	60	11	11
11	80	90	49	43	67	143	209	146	820	54	11	11
12	79	90	50	44	69	141	211	140	760	47	11	11
13	79	90	49	45	72	152	214	128	690	44	11	11
14	79	95	47	44	76	154	224	118	620	40	11	12
15	79	97	45	43	80	154	220	109	560	41	9.9	13
16	78	98	41	44	85	145	215	105	473	40	9.4	12
17	78	98	39	45	94	159	206	111	407	30	11	14
18	78	99	40	46	111	159	209	116	365	29	14	14
19	79	98	39	47	103	155	205	126	335	31	13	14
20	79	97	38	48	101	152	199	128	314	30	33	15
21	77	92	36	49	115	151	184	128	290	27	113	15
22	79	93	37	50	124	150	180	136	280	24	28	16
23	85	91	42	51	116	153	186	154	260	23	18	15
24	86	91	45	50	104	158	182	181	235	21	18	15
25	85	86	47	50	114	166	192	225	215	23	18	15
26	84	84	47	48	115	167	202	250	195	20	19	15
27	84	74	45	50	118	169	206	258	180	18	19	15
28	83	79	43	52	130	164	200	278	165	16	19	15
29	82	82	43	53	---	162	203	268	150	15	19	16
30	85	78	44	54	---	157	209	252	145	13	17	17
31	87	---	46	55	---	154	---	240	---	13	16	---
TOTAL	2401	2687	1513	1434	2380	4545	5688	5190	13358	1652	555.3	409
MEAN	77.5	89.6	48.8	46.3	85.0	147	190	167	445	53.3	17.9	13.6
MAX	87	99	72	55	130	169	224	278	842	148	113	17
MIN	39	74	36	37	54	112	152	105	145	13	9.4	11
AC-FT	4760	5330	3000	2840	4720	9020	11280	10290	26500	3280	1100	811

CAL YR 1976 TOTAL 87800.9 MEAN 240 MAX 911 MIN 9.9 AC-FT 174200
WTR YR 1977 TOTAL 41812.3 MEAN 115 MAX 842 MIN 9.4 AC-FT 82930

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", in SE¼SE¼ sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank 0.2 mi (0.3 km) downstream from Southern Pacific Railroad bridge, 0.5 mi (0.8 km) downstream from Palisade, and 0.8 mi (1.3 km) upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi^2 (12,980 km^2), approximately.

PERIOD OF RECORD.--October 1902 to October 1906, July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft (1,470.828 m) above mean sea level, datum of 1929. Prior to Apr. 1, 1939, nonrecording gages (water-stage recorder Apr. 22 to June 3, 1935) at several sites within half a mile of present site at various datums.

REMARKS.--Records good except for winter periods,which are poor. Diversions for irrigation of 148,000 acres (599 km^2), Humboldt Decree, of hay and pasture land above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--70 years (1902-6, 1911-77) 369 ft^3/s (10.45 m^3/s), 267,300 acre-ft/yr (332 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,610 ft^3/s (187 m^3/s) Feb. 12, 1962, gage height, 10.0 ft (3.05 m); minimum, 2 ft^3/s (0.06 m^3/s) Aug. 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft (5.3 m), present datum, about Feb. 28, 1910, from old photographs and written statements of resident witnesses, discharge, about 17,000 ft^3/s (481 m^3/s), from rating curve extended above 7,000 ft^3/s (198 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft^3/s (29.8 m^3/s) June 8, gage height, 4.34 ft (1.323 m); minimum, 14 ft^3/s (0.40 m^3/s) Aug. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	111	84	56	76	148	184	199	253	139	20	26
2	58	111	81	57	73	144	184	186	319	137	18	24
3	71	111	78	55	73	137	184	176	431	137	18	24
4	89	113	71	52	73	133	181	162	475	142	22	23
5	94	113	67	50	73	135	176	157	511	129	26	22
6	94	115	64	46	75	135	181	153	574	123	24	20
7	94	115	66	45	75	148	184	150	660	115	22	18
8	98	115	67	45	76	164	184	150	838	107	20	17
9	100	117	68	46	80	171	191	146	766	104	20	17
10	102	117	62	48	82	171	221	148	826	92	20	16
11	100	119	58	50	85	167	232	148	850	85	20	17
12	98	119	60	51	85	167	232	148	796	78	18	17
13	98	119	59	52	87	176	235	137	772	75	18	16
14	98	123	56	52	94	179	247	123	680	70	17	14
15	98	125	54	51	102	186	247	115	610	68	17	16
16	98	127	54	52	109	176	241	107	538	68	16	17
17	98	129	53	53	117	181	229	111	467	61	17	18
18	96	129	52	55	129	189	224	117	415	53	26	20
19	100	119	50	56	135	189	221	127	370	51	26	20
20	100	117	50	57	123	184	218	135	325	51	26	22
21	100	125	43	60	131	184	204	133	301	51	94	22
22	100	121	52	63	148	186	189	133	277	48	75	23
23	102	123	55	64	139	181	194	148	262	43	39	23
24	106	123	57	63	127	191	191	167	247	40	26	23
25	107	121	59	70	131	197	189	204	235	37	24	23
26	117	107	60	68	137	199	207	247	213	39	28	22
27	113	96	60	68	137	199	210	259	194	34	28	22
28	109	97	61	70	142	202	204	283	174	31	26	22
29	107	94	62	71	---	197	204	283	159	26	29	22
30	107	92	59	70	---	191	204	268	144	22	29	24
31	109	---	57	75	---	181	---	262	---	20	28	---
TOTAL	3016	3463	1879	1771	2914	5388	6192	5282	13682	2276	837	610
MEAN	97.3	115	60.6	57.1	104	174	206	170	456	73.4	27.0	20.3
MAX	117	129	84	75	148	202	247	283	850	142	94	26
MIN	55	92	43	45	73	133	176	107	144	20	16	14
AC-FT	5980	6870	3730	3510	5780	10690	12280	10480	27140	4510	1660	1210

CAL YR 1976 TOTAL 96224 MEAN 263 MAX 928 MIN 17 AC-FT 190900
WTR YR 1977 TOTAL 47310 MEAN 130 MAX 850 MIN 14 AC-FT 93840

10323500 HUMBOLDT RIVER NEAR ARGENTA, NV

LOCATION.--Lat 40°40'45", long 116°38'45", in SE¼NW¼ sec.2, T.32 N., R.47 E., Lander County, Hydrologic Unit 16040105, on left bank 3 mi (5 km) east of Argenta, and 15.5 mi (24.9 km) east of Battle Mountain.

DRAINAGE AREA.--7,490 mi^2 (19,400 km^2), approximately.

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,580 ft (1,396 m), from topographic map.

REMARKS.--Records good. Many diversions above station for irrigation. Records do not include flow in secondary channels or ditches, much of which is used for irrigation. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--31 years, 329 ft^3/s (9.317 m^3/s), 238,400 acre-ft/yr (294 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft^3/s (170 m^3/s) Feb. 15, 1962, gage height, 10.78 ft (3.286 m), on basis of measured flow at adjacent sites (includes flow bypassing gage outside of main channel); maximum gage height, 11.08 ft (3.377 m) May 2, 1952; minimum daily discharge, 0.20 ft^3/s (0.006 m^3/s) Sept. 15 to Oct. 17, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 716 ft^3/s (20.3 m^3/s) June 9, gage height, 5.42 ft (1.652 m); minimum, 0.52 ft^3/s (0.015 m^3/s) Sept. 15, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	42	78	57	63	150	153	190	215	121	3.6	.95
2	1.1	43	75	58	66	140	135	186	199	112	3.1	1.0
3	1.2	46	72	58	64	136	127	170	238	105	2.5	.93
4	1.2	46	70	56	62	134	131	153	339	96	2.1	.88
5	1.2	46	66	54	63	138	140	140	375	92	2.0	.86
6	1.2	48	66	50	65	137	139	135	420	81	1.6	.84
7	2.1	49	68	49	66	141	154	124	484	72	1.3	.74
8	4.2	51	64	47	68	146	149	119	570	63	1.2	.76
9	5.2	51	60	47	71	158	134	119	679	54	1.1	.74
10	6.2	52	59	48	73	167	140	116	663	49	.98	.70
11	6.5	53	60	47	76	169	157	119	678	44	.97	.64
12	6.9	55	57	49	79	163	182	118	693	38	.95	.64
13	9.0	56	60	50	82	163	190	117	671	35	.90	.64
14	10	61	60	52	86	169	207	111	651	35	.91	.63
15	11	65	60	53	90	170	217	105	595	38	.88	.62
16	11	75	59	52	95	173	217	100	536	40	.88	.65
17	12	81	58	51	103	167	212	97	482	40	.93	.64
18	12	82	57	49	118	166	205	98	430	35	.94	.61
19	12	85	55	49	119	166	202	97	383	28	.84	.59
20	13	86	54	51	115	165	205	99	359	22	.86	.61
21	14	83	54	56	126	162	203	107	320	17	.81	.68
22	14	87	54	57	138	158	197	110	284	15	.79	.67
23	15	86	54	57	128	162	183	119	248	15	.78	.67
24	19	88	57	58	120	159	185	131	215	14	.79	.64
25	23	89	60	57	124	163	183	148	203	12	.83	.66
26	27	88	61	55	130	166	177	168	191	9.8	.87	.66
27	34	90	62	56	138	168	190	209	174	8.2	.91	.65
28	38	86	61	57	147	168	194	225	156	6.8	.94	.65
29	37	82	60	59	---	172	193	249	141	5.7	.88	.71
30	39	80	58	60	---	169	187	250	129	4.9	.89	.69
31	39	---	57	61	---	166	---	237	---	4.2	.92	---
TOTAL	427.1	2032	1896	1660	2675	4931	5288	4466	11721	1312.6	37.95	21.35
MEAN	13.8	67.7	61.2	53.5	95.5	159	176	144	391	42.3	1.22	.71
MAX	39	90	78	61	147	173	217	250	693	121	3.6	1.0
MIN	1.1	42	54	47	62	134	127	97	129	4.2	.78	.59
AC-FT	847	4030	3760	3290	5310	9780	10490	8860	23250	2600	75	42

CAL YR 1976 TOTAL 78319.86 MEAN 214 MAX 853 MIN .96 AC-FT 155300
WTR YR 1977 TOTAL 36468.00 MEAN 99.9 MAX 693 MIN .59 AC-FT 72330

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°34'45", in SW¼SE¼ sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, on left bank at mouth of canyon, 22 mi (35 km) northeast of Battle Mountain.

DRAINAGE AREA.--875 mi^2 (2,266 km^2), approximately.

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published WSP 1314.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WRD 1976: 1971 (P), 1974 (P).

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft (1,402 m), estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to Mar. 26, 1918, nonrecording gage at site about 11 mi (17.7 km) upstream at different datum. Mar. 26, 1918, to Oct. 28, 1970, water-stage recorder at site 0.4 mi (0.6 km) upstream, at the following datums: at different datum Mar. 26, 1918, to Jan. 3, 1946, at datum 9.45 ft (2.880 m) higher Jan. 4, 1946, to July 23, 1964, at datum 7.35 ft (2.240 m) higher July 23, 1964, to Oct. 31, 1968, and at datum 6.34 ft (1.932 m) higher Nov. 1, 1968, to Oct. 28, 1970.

REMARKS.--Records good except those for winter months, which are poor. Sever diversions for irrigation of 4,380 acres (17.7 km^2), Humboldt Decree, in valleys upstream. Station is above all diversions in Boulder Flat and below all tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi (48 km) upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft (22.2 hm^3). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--37 years (1918-23, 1945-77), 33.1 ft^3/s (0.937 m^3/s), 23,980 acre-ft/yr (29.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s (136 m^3/s) Feb. 11, 1962, gage height, 6.89 ft (2.100 m), from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of slope-area measurement of peak flow; no flow at times in July to October nearly every year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55 ft^3/s (1.56 m^3/s) Mar. 1, gage height, 2.99 ft (0.911 m), no peaks above base of 75 ft^3/s (2.12 m^3/s); no flow July 12 to Aug. 27, Aug. 31 to Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.9	3.0	1.8	2.2	17	6.5	1.4	.59	.86	.00	.00
2	2.0	3.3	3.0	1.9	2.1	18	6.2	1.5	.55	1.3	.00	.00
3	3.3	3.0	2.8	1.7	2.2	15	5.8	1.5	.50	2.0	.00	.00
4	3.1	3.1	2.8	1.5	2.3	11	5.8	1.7	.51	1.5	.00	.00
5	3.7	3.1	2.8	1.5	2.4	8.6	5.6	1.5	.48	1.8	.00	.00
6	3.1	2.7	2.5	1.4	2.5	9.3	5.4	1.4	.45	1.6	.00	.00
7	2.6	3.0	2.7	1.4	2.5	7.5	5.2	1.6	.41	.91	.00	.00
8	2.5	3.1	2.9	1.3	2.8	8.0	5.1	1.6	.55	.58	.00	.00
9	2.4	3.3	3.0	1.3	2.9	8.6	5.0	1.5	1.1	.37	.00	.00
10	2.4	3.5	2.9	1.4	3.0	12	4.8	1.4	1.9	.24	.00	.00
11	2.5	3.5	2.5	1.5	3.3	12	4.4	1.7	2.1	.10	.00	.00
12	2.4	3.7	2.2	1.6	3.6	8.4	4.2	1.7	1.7	.03	.00	.00
13	2.4	3.7	2.3	1.6	3.8	10	3.9	1.5	.96	.00	.00	.00
14	2.3	5.2	2.2	1.7	4.3	11	3.5	1.3	.87	.00	.00	.00
15	2.5	5.2	2.1	1.6	5.0	8.7	2.7	1.2	.80	.00	.00	.01
16	2.8	4.8	2.0	1.7	6.0	7.7	2.2	1.4	.67	.00	.00	.09
17	2.7	4.5	2.0	1.8	6.0	7.6	1.9	1.9	.65	.00	.00	.37
18	2.6	4.2	1.9	1.9	6.0	5.4	1.8	1.7	.63	.00	.00	.45
19	2.5	4.0	1.8	1.8	7.2	6.0	1.6	1.4	.60	.00	.00	.42
20	2.6	3.6	1.8	1.8	9.0	6.7	1.6	1.2	.64	.00	.00	.42
21	2.8	3.6	1.7	2.0	11	6.5	1.7	1.0	.80	.00	.00	.47
22	3.0	4.0	1.7	2.1	15	6.5	1.6	1.0	2.0	.00	.00	.50
23	3.1	3.7	1.7	2.2	17	6.7	1.6	1.4	3.5	.00	.00	.51
24	3.0	3.5	1.9	2.0	15	6.6	1.5	2.1	4.2	.00	.00	.46
25	3.0	3.8	1.5	1.9	14	6.1	1.3	1.8	4.6	.00	.00	.48
26	3.1	3.7	1.4	1.9	15	5.6	1.3	1.5	3.0	.00	.00	.42
27	2.8	3.1	1.5	1.8	13	5.7	1.4	1.3	2.3	.00	.00	.45
28	2.9	2.1	1.4	1.8	12	5.6	1.5	1.0	1.7	.00	.01	.46
29	3.2	2.3	1.3	1.8	---	5.4	1.4	.83	1.3	.00	.03	.48
30	3.4	2.8	1.4	1.8	---	5.6	1.4	.75	.95	.00	.02	.58
31	3.3	---	1.5	1.9	---	5.5	---	.63	---	.00	.00	---
TOTAL	85.7	106.0	66.2	53.4	191.1	264.3	97.9	43.41	41.01	11.29	.06	6.57
MEAN	2.76	3.53	2.14	1.72	6.83	8.53	3.26	1.40	1.37	.36	.002	.22
MAX	3.7	5.2	3.0	2.2	17	18	6.5	2.1	4.6	2.0	.03	.58
MIN	1.7	2.1	1.3	1.3	2.1	5.4	1.3	.63	.41	.00	.00	.00
AC-FT	170	210	131	106	379	524	194	86	81	22	.1	13

CAL YR 1976 TOTAL 4389.82 MEAN 12.0 MAX 109 MIN .00 AC-FT 8710
WTR YR 1977 TOTAL 966.94 MEAN 2.65 MAX 18 MIN .00 AC-FT 1920

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°40'00", long 116°55'50", in NE¼NW¼ sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, 30 ft (9 m) downstream from bridge on State Highway 18A, on left bank 2 mi (3 km) north of Battle Mountain. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,870 mi^2 (22,970 km^2), approximately.

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1564: 1897-98, 1923.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. Prior to Mar. 1, 1921, nonrecording gage 1.3 mi (2.1 km) upstream and Mar. 1, 1921, to Apr. 19, 1924, nonrecording gage 0.8 mi (1.3 km) upstream, both at different datums. Oct. 1945 to Sept. 20, 1972, water-stage recorder at site 1.0 mi (1.6 km) upstream at datum 4.79 ft (1.460 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Records prior to 1969 (except the maximum for the period of record) do not always include flow in secondary channels or ditches at medium-high stages, much of which was used for irrigation. Many diversions above station for irrigation of 194,000 acres (785 km^2) Humboldt Decree. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--35 years (1896-97, 1921-23, 1945-77), 340 ft^3/s (9.629 m^3/s), 246,300 acre-ft/yr (304 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,800 ft^3/s (164 m^3/s) May 3, 4, 1952 (includes flow bypassing gage outside of main channel); no flow Sept. 8 to Oct. 22, 1948, Sept. 21-26, 1949, Sept. 21-27, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 679 ft^3/s (19.2 m^3/s) June 10, gage height, 5.56 ft (1.695 m); minimum daily, 0.98 ft^3/s (0.028 m^3/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	70	80	60	71	156	172	166	189	110	9.7	1.6
2	18	70	75	62	70	161	148	170	179	112	9.0	1.5
3	18	71	73	65	70	166	143	164	196	108	8.5	1.5
4	18	73	70	65	71	163	154	154	251	109	8.7	1.4
5	18	75	72	62	72	157	153	151	295	99	9.0	1.3
6	19	75	70	60	73	152	154	140	322	95	7.5	1.3
7	20	76	66	54	76	154	156	138	387	107	6.8	1.1
8	24	76	68	52	78	155	164	137	459	96	6.3	1.0
9	29	78	72	51	83	163	154	137	564	83	5.8	.98
10	33	79	66	50	82	175	147	137	644	75	5.2	1.1
11	34	80	60	50	82	180	151	134	637	69	4.9	1.1
12	35	81	62	52	90	179	169	130	655	62	4.4	1.1
13	35	81	64	54	93	170	185	121	632	56	4.1	1.0
14	37	83	64	57	105	174	197	110	617	51	4.0	1.1
15	41	87	69	56	110	184	205	103	567	47	3.7	1.1
16	42	94	70	54	115	183	208	99	502	46	3.5	1.1
17	43	99	72	55	119	185	206	103	448	43	3.5	1.5
18	44	99	68	54	123	180	196	104	390	39	3.6	1.5
19	45	96	65	54	128	179	172	112	354	37	3.6	1.3
20	45	95	63	57	136	170	167	106	323	33	3.5	1.4
21	46	95	63	60	140	166	168	99	301	29	2.9	1.5
22	47	91	66	64	142	146	166	98	262	26	2.6	1.6
23	48	91	66	65	148	141	163	100	242	24	2.5	1.5
24	49	94	66	63	156	138	160	109	197	22	2.2	1.6
25	52	95	70	62	154	135	169	116	132	21	2.0	1.4
26	57	95	68	62	148	136	169	123	131	19	2.3	1.5
27	60	95	70	62	149	141	165	137	160	17	2.1	1.5
28	66	106	68	61	153	141	165	151	150	15	2.0	1.5
29	68	99	65	61	---	147	167	168	133	14	2.0	1.6
30	68	83	63	63	---	148	164	194	119	12	1.8	1.8
31	69	---	62	66	---	179	---	201	---	11	1.6	---
TOTAL	1244	2582	2096	1813	3037	5004	5057	4112	10438	1687	139.3	40.48
MEAN	40.1	86.1	67.6	58.5	108	161	169	133	348	54.4	4.49	1.35
MAX	69	106	80	66	156	185	208	201	655	112	9.7	1.8
MIN	16	70	60	50	70	135	143	98	119	11	1.6	.98
AC-FT	2470	5120	4160	3600	6020	9930	10030	8160	20700	3350	276	80

CAL YR 1976 TOTAL 79760.70 MEAN 218 MAX 766 MIN 8.5 AC-FT 158200
WTR YR 1977 TOTAL 37249.78 MEAN 102 MAX 655 MIN .98 AC-FT 73880

10325500 REESE RIVER NEAR IONE, NV

LOCATION.--Lat 38°51'00", long 117°28'00", in NW¼ sec.3, T.11 N., R.40 E., Nye County, Hydrologic Unit 16040107, in Toiyabe National Forest, on right bank 2.5 mi (4.0 km) upstream from Indian Creek, 8 mi (13 km) southeast of Ione, and 58 mi (93 km) southwest of Austin.

DRAINAGE AREA.--53 mi² (137 km²), approximately.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder and LANDSAT data collection platform with external memory unit. Concrete control since Oct. 3, 1956. Altitude of gage is 7,100 ft (2,164 m), from topographic map. Prior to Sept. 9, 1955, at site 200 ft (61 m) upstream at datum 2.85 ft (0.869 m) higher.

REMARKS.--Records good. No diversion above station.

AVERAGE DISCHARGE.--26 years, 11.3 ft³/s (0.320 m³/s), 8,190 acre-ft/yr (10.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 512 ft³/s (14.5 m³/s) July 27, 1956, gage height, 4.86 ft (1.481 m), from rating curve extended above 45 ft³/s (1.27 m³/s) on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 148 ft³/s (4.19 m³/s) June 11 (0200 hrs), gage height, 1.99 ft (0.607 m), no other peak above base of 130 ft³/s (3.68 m³/s); minimum, 0.35 ft³/s (0.010 m³/s) Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.1	2.1	1.7	2.4	2.5	3.5	8.5	43	23	5.2	3.0
2	12	4.1	2.0	1.9	2.3	2.4	3.6	7.8	51	23	5.2	2.9
3	11	4.1	2.0	2.1	2.4	2.5	3.5	7.4	55	19	5.2	2.8
4	9.2	4.1	2.2	2.2	2.6	3.2	7.0	7.0	56	19	6.0	2.8
5	8.4	4.2	2.1	2.3	2.3	2.7	19	6.7	55	18	5.8	2.5
6	7.8	4.2	1.8	2.2	2.3	3.0	34	7.0	51	16	5.7	2.4
7	7.3	4.2	2.2	2.1	2.3	3.2	31	6.2	48	15	5.5	2.5
8	7.0	4.0	2.4	2.0	2.2	3.1	26	7.5	47	14	5.0	2.4
9	6.6	3.8	2.3	2.0	2.2	3.0	18	8.3	76	14	4.7	2.4
10	6.4	3.9	2.3	1.8	2.2	2.1	14	11	105	13	4.4	2.3
11	6.5	3.9	2.3	1.8	2.2	2.6	12	15	112	12	4.1	2.4
12	6.0	4.0	2.3	2.0	2.2	3.5	11	16	100	12	3.8	4.2
13	5.5	3.7	2.4	2.0	2.2	2.8	11	19	98	11	4.3	3.1
14	5.4	4.4	2.2	2.1	2.3	3.1	10	22	75	11	4.0	2.8
15	5.4	3.3	2.1	2.0	2.3	2.6	9.6	23	67	10	3.5	2.8
16	5.3	4.5	2.2	2.2	2.3	3.5	10	22	61	10	3.5	3.1
17	5.2	4.7	2.3	2.2	2.7	2.9	10	20	59	9.9	5.5	4.4
18	5.1	4.6	2.0	2.3	2.6	3.0	9.8	18	55	9.5	7.6	4.0
19	4.9	4.3	1.8	2.4	2.6	3.9	8.8	18	54	9.2	11	3.5
20	4.8	3.7	1.6	2.5	2.7	3.6	8.6	18	47	8.9	6.1	3.6
21	4.9	3.8	1.6	2.5	3.0	3.6	8.8	21	41	8.8	8.1	3.7
22	4.8	3.9	1.6	2.6	2.4	4.8	8.6	23	38	8.3	5.4	3.4
23	4.7	3.5	1.7	2.4	2.3	5.8	8.3	28	34	8.2	4.5	3.4
24	4.6	3.1	1.8	2.3	2.4	4.2	8.3	32	31	8.0	4.0	3.3
25	4.5	3.3	1.8	2.2	2.3	3.6	7.9	30	30	7.6	3.9	3.2
26	4.5	2.5	2.0	2.3	2.4	3.6	8.2	28	29	7.0	3.8	3.1
27	3.7	1.0	1.8	2.3	2.7	4.4	8.1	27	26	7.0	4.1	3.1
28	3.6	1.2	1.6	2.4	3.0	3.6	8.1	26	24	6.5	3.9	3.0
29	4.2	1.9	1.9	2.4	---	2.9	8.1	27	22	6.1	3.6	3.0
30	4.2	2.1	1.7	2.4	---	3.7	8.2	28	21	5.8	3.2	3.1
31	4.2	---	1.5	2.4	---	4.0	---	34	---	5.5	3.1	---
TOTAL	182.0	108.1	61.6	68.0	67.8	103.4	343.0	572.4	1611	356.3	153.7	92.2
MEAN	5.87	3.60	1.99	2.19	2.42	3.34	11.4	18.5	53.7	11.5	4.96	3.07
MAX	12	4.7	2.4	2.6	3.0	5.8	34	34	112	23	11	4.4
MIN	3.6	1.0	1.5	1.7	2.2	2.1	3.5	6.2	21	5.5	3.1	2.3
AC-FT	361	214	122	135	134	205	680	1140	3200	707	305	183

CAL YR 1976 TOTAL 2235.1 MEAN 6.11 MAX 26 MIN 1.0 AC-FT 4430
WTR YR 1977 TOTAL 3719.5 MEAN 10.2 MAX 112 MIN 1.0 AC-FT 7380

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 41°00'00", long 117°19'00", in SE¼ sec.14, T.36 N., R.41 E., Humboldt County, Hydrologic Unit 16040105, on left bank at Comus siding of Southern Pacific Railroad, 1.0 mi (1.6 km) upstream from Kelly Creek, 9 mi (14 km) northeast of Golconda, and 32 mi (51 km) northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi² (31,300 km²), approximately.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft (1,328.90 m) above mean sea level (from Soil Conservation Service reference mark). Prior to Sept. 25, 1917, nonrecording gages at several sites about 10 mi (16 km) downstream at different datum. Sept. 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at different datum.

REMARKS.--Records good. Many diversions above station for irrigation, Humboldt Decree, 206,000 acres (834 km²); additional acreage not covered by decree. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--63 years, 291 ft³/s (8.241 m³/s), 210,000 acre-ft/yr (260 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,860 ft³/s (166 m³/s) May 6, 1952, gage height, 11.52 ft (3.511 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 575 ft³/s (16.3 m³/s) June 13, gage height, 4.66 ft (1.420 m); minimum, no flow Sept. 25-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	60	68	65	69	113	131	122	181	123	8.7	.30
2	12	61	66	68	70	113	161	120	162	108	7.9	.30
3	12	61	66	68	68	118	142	118	137	96	6.5	.30
4	12	61	62	64	68	124	126	115	122	91	5.8	.18
5	12	64	60	58	70	125	123	110	160	86	5.4	.18
6	12	65	59	52	72	123	135	85	193	83	5.0	.12
7	12	66	63	46	75	122	132	97	240	78	4.3	.12
8	12	66	65	44	77	119	133	97	270	80	3.6	.12
9	12	66	63	43	79	122	139	91	345	82	3.0	.12
10	14	66	60	43	82	124	143	86	408	73	2.5	.12
11	18	68	59	45	82	130	134	87	448	67	2.0	.12
12	23	69	61	47	84	142	130	86	470	62	1.6	.12
13	26	69	62	50	89	149	141	84	495	57	1.4	.12
14	28	71	58	51	107	142	166	83	497	54	1.4	.12
15	30	73	55	51	131	141	174	83	500	50	1.2	.18
16	34	73	53	50	128	151	187	87	490	47	1.1	.18
17	37	76	54	51	130	155	193	123	450	44	1.1	.18
18	37	85	55	53	141	156	196	96	405	40	1.1	.18
19	40	85	57	55	136	156	194	96	345	37	1.0	.18
20	41	85	56	58	139	153	172	93	318	34	.87	.12
21	42	84	53	62	132	149	161	98	299	31	.78	.12
22	43	85	52	66	151	145	153	94	276	27	.54	.12
23	43	83	57	67	167	133	147	94	241	24	.42	.10
24	44	81	61	62	166	119	146	95	216	21	.36	.10
25	45	84	66	60	166	114	147	95	177	18	.42	.10
26	46	85	73	60	153	109	131	99	161	16	.54	.10
27	48	84	75	62	117	111	131	105	117	15	.42	.10
28	51	67	74	64	109	109	127	111	103	14	.30	.10
29	53	67	73	65	---	112	124	122	101	12	.30	.10
30	58	75	70	66	---	118	123	137	124	11	.30	.12
31	59	---	65	67	---	124	---	153	---	10	.30	---
TOTAL	968	2185	1921	1763	3058	4021	4442	3162	8451	1591	70.15	4.42
MEAN	31.2	72.8	62.0	56.9	109	130	148	102	282	51.3	2.26	.15
MAX	59	85	75	68	167	156	196	153	500	123	8.7	.30
MIN	12	60	52	43	68	109	123	83	101	10	.30	.10
AC-FT	1920	4330	3810	3500	6070	7980	8810	6270	16760	3160	139	8.8

CAL YR 1976 TOTAL 69259.40 MEAN 189 MAX 762 MIN 5.0 AC-FT 137400
WTR YR 1977 TOTAL 31636.57 MEAN 86.7 MAX 500 MIN .10 AC-FT 62750

10328450 NORTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°29'30", long 117°07'30", in SW¼ sec.28, T.42 N., R.43 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.7 mi (1.1 km) upstream from concrete diversion dam, 7.5 mi (12.1 km) north-northeast of Chimney Dam, and 21 mi (34 km) east of Paradise Valley.

DRAINAGE AREA.--210 mi^2 (544 km^2).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,670 ft (1,420 m), from topographic map.

REMARKS.--Records fair except for periods of no gage-height record,Dec. 14 to Mar. 20, which are poor. No known diversions above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) Feb. 29, gage height, 3.06 ft (0.933 m); minimum, 0.14 ft^3/s (0.004 m^3/s) July 19-22, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s (0.963 m^3/s) June 11, gage height 1.97 ft (0.600 m); minimum 0.14 ft^3/s (0.004 m^3/s July 19-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.2	2.0	.40	2.1	4.7	6.6	7.1	9.4	1.8	.18	.70
2	4.6	3.3	2.2	.54	2.1	4.7	6.0	6.8	8.0	2.2	.18	.60
3	6.2	3.2	2.4	.70	2.1	4.5	5.4	6.8	8.0	1.8	.18	.54
4	5.0	3.2	2.5	.80	2.2	4.1	6.0	6.8	8.0	2.6	.18	.47
5	4.3	3.2	2.7	.75	2.3	3.9	6.2	7.1	7.5	2.3	.18	.44
6	3.8	3.2	2.2	.60	2.4	3.5	9.4	7.8	6.8	2.2	.18	.40
7	3.4	3.2	2.5	.54	2.5	3.9	17	9.4	6.4	1.8	.18	.36
8	3.4	3.2	2.2	.47	2.6	4.4	18	9.3	6.0	1.4	.18	.27
9	3.2	3.2	2.3	.43	2.8	4.5	19	10	9.1	1.2	.18	.25
10	3.2	3.2	2.4	.50	2.9	4.1	17	11	13	.92	.20	.23
11	3.2	3.1	2.0	.70	3.2	4.0	12	12	25	.80	.20	.20
12	3.1	3.2	1.8	.90	3.5	5.2	11	11	16	.70	.20	.20
13	3.1	3.2	1.9	1.0	3.8	6.8	11	12	13	.60	.20	.22
14	3.1	3.4	1.9	1.1	4.2	8.4	12	15	12	.49	.20	.34
15	3.1	3.8	1.8	1.1	4.8	7.4	10	15	11	.36	.20	.43
16	3.1	3.7	1.5	1.2	5.6	7.0	8.8	16	9.1	.29	.20	.47
17	3.1	3.7	1.4	1.3	5.8	6.2	8.8	16	8.6	.21	.20	.61
18	3.0	3.5	1.2	1.4	5.9	5.0	10	16	8.6	.16	.20	.73
19	2.9	3.4	1.2	1.4	6.0	5.4	9.1	15	7.8	.14	.23	.79
20	2.9	3.1	1.1	1.5	5.6	5.8	8.3	15	7.1	.14	.23	.80
21	3.0	2.9	1.0	1.7	5.8	6.0	7.8	14	8.0	.14	.23	.80
22	3.1	2.8	.90	2.0	5.8	6.0	7.5	14	7.3	.14	.23	.80
23	3.1	3.0	.80	2.0	5.2	6.2	7.5	15	7.5	.16	.38	.86
24	3.2	3.1	.60	1.7	4.8	8.3	7.8	16	5.2	.16	.40	.86
25	3.2	3.1	.50	1.7	4.4	6.2	7.8	16	4.5	.16	.44	.92
26	3.4	2.6	.50	1.7	4.6	6.4	7.8	15	3.4	.16	.62	.99
27	3.4	2.1	.30	1.6	4.9	7.3	7.8	15	3.2	.16	.86	1.1
28	3.4	1.6	.30	1.6	5.0	4.8	7.8	14	2.6	.16	1.4	.99
29	3.3	1.9	.30	1.6	---	6.4	7.3	12	2.3	.16	1.4	.99
30	3.3	1.8	.30	1.7	---	6.0	7.1	11	2.0	.16	1.1	.99
31	3.2	---	.30	2.0	---	5.8	---	10	---	.16	.81	---
TOTAL	106.0	91.1	45.00	36.63	112.9	172.9	287.8	377.1	246.4	23.83	11.75	18.35
MEAN	3.42	3.04	1.45	1.18	4.03	5.58	9.59	12.2	8.21	.77	.38	.61
MAX	6.2	3.8	2.7	2.0	6.0	8.4	19	16	25	2.6	1.4	1.1
MIN	2.7	1.6	.30	.40	2.1	3.5	5.4	6.8	2.0	.14	.18	.20
AC-FT	210	181	89	73	224	343	571	748	489	47	23	36

CAL YR 1976 TOTAL 5240.51 MEAN 14.3 MAX 91 MIN .30 AC-FT 10390
WTR YR 1977 TOTAL 1529.76 MEAN 4.19 MAX 25 MIN .14 AC-FT 3030

10328475 SOUTH FORK LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°27'00", long 117°06'00", in NE¼ sec.10, T.41 N., R.43 E., Humboldt County, Hydrologic Unit 16040109, on left bank 5.8 mi (9.3 km) northeast of Chimney Dam, and 23 mi (32 km) east of Paradise Valley.

DRAINAGE AREA.--431 mi^2 (1,116 km^2).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,420 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record,which are fair. Diversions for irrigation of 865 acres (3.50 km^2), Little Humboldt Decree, above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56 ft^3/s (1.59 m^3/s) Mar. 1, 1976, gage height 2.47 ft (0.753 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s (0.368 m^3/s) Oct. 3, gage height 1.37 ft (0.418 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.5	.80	.28	.81	2.5	1.6	.93	.71	.00	.00	.00
2	2.9	2.3	.80	.28	.89	2.4	1.8	1.1	.53	.01	.00	.00
3	9.3	2.4	.80	.28	.96	1.7	1.7	1.1	.46	.00	.00	.00
4	4.8	2.2	.90	.28	1.1	1.6	1.9	1.3	.38	.02	.00	.00
5	3.4	1.9	1.0	.30	1.2	1.4	1.8	1.2	.30	.00	.00	.00
6	3.0	2.5	.90	.30	1.3	1.2	4.8	1.2	.21	.00	.00	.00
7	2.7	2.4	1.0	.30	1.5	1.3	6.8	1.5	.12	.00	.00	.00
8	2.7	2.4	1.0	.28	2.1	1.1	5.9	1.4	.13	.00	.00	.00
9	2.7	2.4	1.0	.20	2.1	1.1	5.2	1.3	.54	.00	.00	.00
10	2.7	2.3	1.0	.20	2.1	.88	5.1	1.5	1.9	.00	.00	.00
11	2.7	2.4	.90	.20	2.0	.83	3.0	1.8	1.9	.00	.00	.00
12	2.3	2.4	1.0	.24	2.1	.92	1.9	1.8	1.1	.00	.00	.00
13	2.2	2.2	1.0	.24	2.2	.87	1.6	1.5	.75	.00	.00	.00
14	2.2	2.2	.97	.24	2.5	.84	1.9	1.4	.65	.00	.00	.00
15	2.2	2.4	1.0	.24	2.9	.93	1.5	1.2	.52	.00	.00	.00
16	2.2	2.2	1.0	.24	3.0	.95	1.4	1.5	.32	.00	.00	.00
17	2.2	2.1	.97	.24	3.2	.91	1.3	2.2	.19	.00	.00	.00
18	2.2	2.1	.78	.24	3.4	.85	1.2	2.0	.38	.00	.00	.00
19	2.4	2.0	.78	.24	4.3	.92	1.3	1.4	.56	.00	.00	.00
20	2.2	1.8	.51	.24	4.0	.92	1.2	1.4	.70	.00	.00	.00
21	2.3	1.6	.34	.24	4.0	1.0	1.1	1.3	.81	.00	.00	.00
22	2.3	1.7	.24	.24	4.0	1.3	1.2	1.1	.75	.00	.00	.00
23	2.4	1.5	.20	.24	4.8	1.3	1.2	1.8	.59	.00	.00	.00
24	2.4	1.4	.24	.24	4.3	1.2	1.1	1.7	.39	.00	.00	.00
25	2.4	1.6	.20	.24	5.6	1.2	1.1	1.6	.30	.00	.00	.00
26	2.7	1.2	.20	.24	4.0	1.1	1.0	1.6	.18	.00	.00	.00
27	2.3	1.1	.24	.28	3.8	1.4	1.1	1.7	.07	.00	.00	.00
28	2.7	.90	.38	.38	3.2	1.2	1.0	1.6	.00	.00	.00	.00
29	2.3	.90	.28	.44	---	1.3	.92	1.3	.00	.00	.00	.00
30	2.5	.80	.28	.51	---	1.4	.95	1.1	.00	.00	.00	.00
31	2.5	---	.28	.68	---	1.3	---	.93	---	.00	.00	---
TOTAL	85.8	57.80	20.99	8.79	77.36	37.82	63.57	44.46	15.44	.03	.00	.00
MEAN	2.77	1.93	.68	.28	2.76	1.22	2.12	1.43	.51	.001	.000	.000
MAX	9.3	2.5	1.0	.68	5.6	2.5	6.8	2.2	1.9	.02	.00	.00
MIN	2.0	.80	.20	.20	.81	.83	.92	.93	.00	.00	.00	.00
AC-FT	170	115	42	17	153	75	126	88	31	.06	.00	.00

CAL YR 1976 TOTAL 2211.92 MEAN 6.04 MAX 42 MIN .00 AC-FT 4390
WTR YR 1977 TOTAL 412.06 MEAN 1.13 MAX 9.3 MIN .00 AC-FT 817

10328500 LITTLE HUMBOLDT RIVER BELOW CHIMNEY DAM, NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°23'25", long 117°11'00", in NW¼ sec.36, T.41 N., R.42 E., Humboldt County, Hydrologic Unit 16040109, on left bank 20 mi (32 km) east-southeast of Paradise Valley.

DRAINAGE AREA.--780 mi^2 (2,020 km^2), approximately.

PERIOD OF RECORD.--October 1941 to September 1950 (before dam was built), April 1975 to current year. Prior to April 1975, published as "at Chimney dam site."

GAGE.--Water-stage recorder. Altitude of gage is 4,560 ft (1,390 m), from topographic map. Prior to April 1975, at different site and datum.

REMARKS.--Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm^3). Diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since dam was built, 206 ft^3/s (5.83 m^3/s) May 22, 1975, gage height, 4.34 ft (1.323 m); maximum discharge before dam was built, 4,000 ft^3/s (113 m^3/s) about Jan. 22, 1943, gage, 14.4 ft (4.39 m), from floodmarks, from slope-area measurement of peak flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft^3/s (0.51 m^3/s) June 2, gage height, 1.94 ft (0.591 m); no flow Oct. 1 to Mar. 28, Aug. 16 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.9	7.7	16	8.4	.20	.00
2	.00	.00	.00	.00	.00	.00	4.9	7.7	17	8.0	.20	.00
3	.00	.00	.00	.00	.00	.00	13	7.7	11	8.0	.20	.00
4	.00	.00	.00	.00	.00	.00	12	7.7	7.0	7.7	.20	.00
5	.00	.00	.00	.00	.00	.00	9.6	7.7	7.0	7.7	.20	.00
6	.00	.00	.00	.00	.00	.00	7.3	7.7	7.0	7.7	.30	.00
7	.00	.00	.00	.00	.00	.00	7.3	7.7	6.6	7.7	.20	.00
8	.00	.00	.00	.00	.00	.00	7.3	7.7	6.3	7.7	.20	.00
9	.00	.00	.00	.00	.00	.00	7.0	7.7	6.3	8.0	.20	.00
10	.00	.00	.00	.00	.00	.00	7.0	7.7	6.3	7.7	.20	.00
11	.00	.00	.00	.00	.00	.00	7.0	7.7	6.0	7.7	.20	.00
12	.00	.00	.00	.00	.00	.00	7.3	7.7	6.0	7.7	.20	.00
13	.00	.00	.00	.00	.00	.00	7.0	7.7	6.0	7.7	.10	.00
14	.00	.00	.00	.00	.00	.00	7.0	7.7	6.3	7.7	.10	.00
15	.00	.00	.00	.00	.00	.00	7.3	7.7	6.3	8.8	.10	.00
16	.00	.00	.00	.00	.00	.00	7.3	7.7	6.3	7.7	.00	.00
17	.00	.00	.00	.00	.00	.00	7.0	11	6.3	7.7	.00	.00
18	.00	.00	.00	.00	.00	.00	7.0	16	6.3	7.7	.00	.00
19	.00	.00	.00	.00	.00	.00	7.0	16	6.6	7.7	.00	.00
20	.00	.00	.00	.00	.00	.00	7.3	16	6.6	3.7	.00	.00
21	.00	.00	.00	.00	.00	.00	7.3	16	7.0	.40	.00	.00
22	.00	.00	.00	.00	.00	.00	7.7	16	7.3	.30	.00	.00
23	.00	.00	.00	.00	.00	.00	7.7	16	7.7	.30	.00	.00
24	.00	.00	.00	.00	.00	.00	7.7	16	7.7	.30	.00	.00
25	.00	.00	.00	.00	.00	.00	7.7	16	7.7	.30	.00	.00
26	.00	.00	.00	.00	.00	.00	7.7	16	8.0	.30	.00	.00
27	.00	.00	.00	.00	.00	.00	7.7	16	8.4	.40	.00	.00
28	.00	.00	.00	.00	.00	.00	7.7	16	8.4	.40	.00	.00
29	.00	.00	.00	.00	---	6.5	7.7	16	8.8	.30	.00	.00
30	.00	.00	.00	.00	---	13	7.7	16	8.8	.20	.00	.00
31	.00	---	.00	.00	---	6.9	---	16	---	.20	.00	---
TOTAL	.00	.00	.00	.00	.00	26.40	225.1	358.2	233.0	156.10	2.80	.00
MEAN	.000	.000	.000	.000	.000	.85	7.50	11.6	7.77	5.04	.090	.000
MAX	.00	.00	.00	.00	.00	13	13	16	17	8.8	.30	.00
MIN	.00	.00	.00	.00	.00	.00	1.9	7.7	6.0	.20	.00	.00
AC-FT	.00	.00	.00	.00	.00	52	446	710	462	310	5.6	.00

CAL YR 1976 TOTAL 6096.20 MEAN 16.7 MAX 103 MIN .00 AC-FT 12090
WTR YR 1977 TOTAL 1001.60 MEAN 2.74 MAX 17 MIN .00 AC-FT 1990

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW¼SE¼ sec.20, T.41 N., R.41 E., Humboldt County, Hydrologic Unit 16040109, on right bank 3.5 mi (5.6 km) downstream from Bullshead Ranch and 9.5 mi (15.3 km) southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi^2 (2,670 km^2), approximately.

PERIOD OF RECORD.--October 1921 to June 1928 (fragmentary), October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,470 ft (1,362 m), from river-profile map. Prior to Nov. 21, 1946, water-stage recorder at site 1 mi (1.6 km) downstream at different datum. Nov. 21, 1946, to Aug. 16, 1972, at site 250 ft (76 m) upstream at datum 2.21 ft (0.674 m) higher.

REMARKS.--Records good except those for periods of no gage height record Dec. 5 to Jan. 12, which are fair. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft (43.2 hm^3), 10 mi (16 km) upstream, since 1974. Diversions for irrigation of 4,450 acres (18.0 km^2), Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--39 years (1921-23, 1924-27, 1943-1977), 24.9 ft^3/s (0.705 m^3/s), 18,040 acre-ft/yr (22.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,380 ft^3/s (67.4 m^3/s) Jan. 21, 1969, gage height, 8.40 ft (2.560 m), minimum, 0.46 ft^3/s (0.013 m^3/s) Aug. 25, 1973, probably result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s (0.48 m^3/s) June 10, gage height, 1.88 ft (0.573 m); minimum daily, 6.6 ft^3/s (0.187 m^3/s) Aug. 20-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.0	8.0	7.9	7.7	8.3	9.9	11	15	12	7.4	6.7
2	7.7	8.0	8.0	7.9	7.7	8.3	8.9	11	14	12	7.4	6.7
3	7.7	8.0	8.0	8.1	7.7	8.3	8.9	11	15	12	7.4	6.7
4	7.7	8.0	8.3	8.1	7.7	8.3	9.9	11	14	12	7.4	6.9
5	7.7	8.0	8.0	8.1	7.7	8.3	10	11	12	12	7.4	6.9
6	7.7	8.0	7.8	7.8	7.7	8.3	9.9	11	12	12	7.2	6.9
7	7.4	8.0	8.0	7.7	7.7	8.3	9.9	12	12	12	7.2	6.9
8	7.7	8.0	8.2	7.4	7.7	8.3	9.9	12	12	12	7.2	6.9
9	7.4	8.0	8.1	7.4	7.7	8.3	9.9	12	13	12	6.9	6.9
10	7.7	8.0	7.9	7.4	7.7	8.6	10	12	16	12	7.2	6.9
11	7.4	8.0	7.6	7.3	7.7	8.6	10	12	14	11	6.9	6.9
12	7.7	8.3	8.0	7.3	7.7	8.6	10	12	13	10	6.9	6.9
13	7.7	8.0	8.2	7.4	7.7	8.6	10	11	12	9.9	6.9	6.9
14	7.7	8.6	8.2	7.4	7.7	8.6	11	11	12	8.4	6.7	7.2
15	7.7	8.3	8.0	7.4	7.7	8.6	10	11	12	8.2	6.9	7.2
16	7.7	8.3	7.9	7.4	8.0	8.6	11	12	12	8.0	6.9	7.2
17	7.4	8.3	7.8	7.4	8.3	8.6	10	12	12	7.8	6.9	7.2
18	7.4	8.3	7.5	7.4	8.3	8.6	10	12	12	7.6	6.7	7.2
19	7.7	8.3	7.6	7.4	8.3	8.6	11	13	12	7.6	6.7	7.2
20	7.7	8.3	7.6	7.4	8.0	8.6	11	13	12	9.6	6.6	7.2
21	7.7	8.3	7.6	7.4	8.3	8.6	11	13	12	9.6	6.6	7.2
22	7.7	8.3	7.7	7.4	8.3	8.6	11	13	12	8.6	6.6	7.2
23	7.7	8.3	7.8	7.4	8.3	8.6	11	14	12	8.3	6.6	7.2
24	7.7	8.3	8.1	7.7	8.3	8.6	11	14	12	8.0	6.7	7.2
25	7.7	8.3	8.1	8.0	8.3	8.6	11	14	11	7.7	6.9	7.2
26	7.7	8.3	8.1	7.7	8.3	8.3	11	14	11	7.7	7.2	7.2
27	7.7	8.0	8.1	7.7	8.3	8.6	11	15	11	7.7	6.9	6.9
28	7.7	8.0	7.9	7.7	8.3	8.3	11	16	11	7.4	6.9	6.9
29	8.0	8.0	7.8	7.7	---	8.9	10	15	12	7.4	6.9	7.2
30	8.0	8.0	7.9	7.7	---	8.9	11	15	12	7.4	6.7	6.9
31	8.0	---	8.0	7.7	---	8.9	---	15	---	7.4	6.7	---
TOTAL	237.8	244.5	245.8	235.7	222.8	264.2	310.2	391	374	295.3	215.5	210.6
MEAN	7.67	8.15	7.93	7.60	7.96	8.52	10.3	12.6	12.5	8.53	6.95	7.02
MAX	8.0	8.6	8.3	8.1	8.3	8.9	11	16	16	12	7.4	7.2
MIN	7.4	8.0	7.5	7.3	7.7	8.3	8.9	11	11	7.4	6.6	6.7
AC-FT	472	485	488	468	442	524	615	776	742	586	427	418

CAL YR 1976 TOTAL 6587.6 MEAN 18.0 MAX 89 MIN 6.9 AC-FT 13070
WTR YR 1977 TOTAL 3247.4 MEAN 8.90 MAX 16 MIN 6.6 AC-FT 6440

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'00", long 117°25'40", in NW¼SW¼ sec.12, T.42 N., R.40 E., Humboldt County, Hydrologic Unit 16040109, on left bank 0.6 mi (1.0 km) upstream from Humboldt County Recreation Park and 7 mi (11 km) northeast of Paradise Valley.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from extension of river-profile map. Prior to Oct. 22, 1946, water-stage recorder at several sites within 400 ft (122 m) of present site at different datums.

REMARKS.--Records good except for period of no gage height record, Oct. 5 to Nov. 23, which is fair. Diversion for irrigation of 40 acres, above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--56 years, 31.4 ft³/s (0.889 m³/s), 22,750 acre-ft/yr (28.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/s (255 m³/s) Jan. 21, 1943, gage height, 11.1 ft (3.38 m), site and datum then in use, on basis of slope-area measurement of peak flow; minimum, 1.8 ft³/s (0.051 m³/s) Feb. 6, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 203 ft³/s (5.75 m³/s) June 10, gage height, 2.17 ft (0.661 m), no peak above base of 200 ft³/s (5.66 m³/s); minimum 4.0 ft³/s (0.113 m³/s) Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	8.5	7.4	7.5	7.7	9.3	11	24	37	12	4.8	5.5
2	8.5	8.8	7.2	7.5	8.0	8.8	9.3	23	38	14	4.8	5.5
3	9.6	8.6	7.2	7.9	7.7	9.7	10	21	35	17	4.6	5.5
4	9.4	8.6	8.7	8.0	7.4	9.1	11	20	33	15	4.8	5.5
5	9.3	8.6	8.0	8.2	7.7	8.6	15	20	32	13	4.8	5.5
6	9.0	8.5	6.3	7.5	8.3	9.8	26	20	29	12	4.8	5.3
7	9.0	8.5	7.3	6.9	8.9	9.3	33	21	27	11	4.8	5.3
8	9.0	8.5	8.6	6.9	8.9	10	35	21	30	9.6	4.8	5.3
9	8.4	8.5	9.9	6.9	8.7	10	39	21	34	8.7	5.1	5.3
10	8.5	8.5	6.5	6.9	8.6	9.1	26	25	127	8.1	5.0	5.3
11	8.5	8.2	6.7	7.2	8.7	8.9	22	27	81	7.8	4.8	5.3
12	8.3	8.4	7.3	7.9	8.9	10	22	29	65	7.4	4.6	5.3
13	8.2	8.5	7.7	8.2	9.1	9.8	26	31	63	6.8	4.6	5.3
14	8.3	9.0	7.6	7.9	9.5	9.0	22	35	56	6.7	4.6	9.4
15	8.3	9.8	7.5	7.9	9.5	9.7	19	35	50	6.4	4.6	5.4
16	8.3	9.7	7.7	7.9	9.8	9.6	22	36	44	6.1	4.6	5.5
17	8.2	9.6	7.0	7.9	10	9.4	28	34	40	5.7	4.6	5.8
18	8.1	9.4	6.7	7.9	9.8	8.9	23	33	40	5.5	4.7	5.8
19	7.8	8.9	6.7	7.9	9.6	9.6	20	32	41	5.4	4.5	5.8
20	7.8	8.4	6.6	7.9	10	9.4	19	32	38	5.4	4.8	5.8
21	8.1	7.9	6.5	7.9	11	9.6	21	33	35	5.3	5.0	5.9
22	8.2	7.7	6.5	7.9	11	11	22	34	30	5.1	5.1	6.0
23	8.3	7.9	6.8	8.0	9.1	12	26	40	26	5.1	4.9	6.0
24	8.4	8.5	7.4	7.6	8.9	12	27	40	23	5.1	4.8	6.0
25	8.6	8.9	7.9	7.0	8.7	10	28	39	20	5.1	5.3	6.0
26	9.0	7.6	7.9	7.2	9.5	10	29	38	18	5.1	8.3	6.0
27	9.2	5.4	7.8	7.1	9.1	11	25	38	16	5.1	6.9	6.0
28	9.1	5.8	7.2	7.2	9.4	9.6	24	36	15	4.8	6.4	6.0
29	8.9	6.4	7.0	7.2	---	11	26	35	14	4.8	6.0	6.1
30	8.7	7.2	7.4	7.2	---	11	25	34	12	4.8	5.7	6.5
31	8.5	---	7.5	7.3	---	9.6	---	34	---	4.8	5.5	---
TOTAL	265.4	248.8	228.5	234.4	253.5	304.8	691.3	941	1149	238.7	158.6	169.9
MEAN	8.56	8.29	7.37	7.56	9.05	9.83	23.0	30.4	38.3	7.70	5.12	5.66
MAX	9.6	9.8	9.9	8.2	11	12	39	40	127	17	8.3	6.5
MIN	7.8	5.4	6.3	6.9	7.4	8.6	9.3	20	12	4.8	4.5	5.3
AC-FT	526	493	453	465	503	605	1370	1870	2280	473	315	337

CAL YR 1976 TOTAL 8551.8 MEAN 23.4 MAX 139 MIN 4.6 AC-FT 16960
WTR YR 1977 TOTAL 4883.9 MEAN 13.4 MAX 127 MIN 4.5 AC-FT 9690

10332500 HUMBOLDT-LOVELOCK IRRIGATION, LIGHT & POWER CO.'S FEEDER CANAL NEAR IMLAY, NV

LOCATION.--Lat 40°40'05", long 118°11'55", in SE¼NE¼ sec.1, T.32 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on left bank 3 mi (5 km) northwest of Imlay and 9 mi (14 km) downstream from headgates.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,170 ft (1,271 m), from topographic map.

REMARKS.--No flow since Aug. 23, 1976. This canal diverts water during some years from Humboldt River in NW¼ sec.29, T.33 N., R 35 E., for storage in Pitt-Taylor Reservoirs near Humboldt, and is completely controlled at the headgate. During irrigation season, water is released to Rye Patch Reservoir, capacity, 157,200 acre-ft (194 hm^3), from which it is later released and carried in natural river channel to Lovelock district for irrigation.

AVERAGE DISCHARGE.--31 years, 17.9 ft^3/s (0.508 m^3/s), 12,970 acre-ft/yr (16.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 260 ft^3/s (7.36 m^3/s) July 7, 1970; no flow much of the time in most years.

EXTREMES FOR CURRENT YEAR.-- No flow during year.

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", in SW¼SE¼ sec.25, T.33 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank 1 mi (2 km) upstream from Callahan bridge and 4 mi (6 km) northwest of Imlay.

DRAINAGE AREA.--15,700 mi^2 (40,660 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year. Monthly discharge only October to December 1941, published in WSP 1314.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,130 ft (1,259 m) from Geological Survey vertical-angle bench mark. Prior to Apr. 28, 1945, at site 1 mi (2 km) downstream at different datum. Apr. 28, 1945, to Aug. 20, 1947, at present site at datum 1 ft (0.3m) higher.

REMARKS.--Records good. Humboldt-Lovelock Irrigation, Light & Power Co.'s feeder canal diverts water at times from river above station to Pitt-Taylor Reservoirs (see preceding page). Flow affected by many diversions above station for irrigation; Humboldt Decree, 226,000 acres (915 km^2); additional acreage not covered in decree.

AVERAGE DISCHARGE.--38 years, 203 ft^3/s (5.749 m^3/s), 147,100 acre-ft/yr (181 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,080 ft^3/s (172 m^3/s) May 9, 1952, gage height, 12.15 ft (3.703 m); no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 325 ft^3/s (9.20 m^3/s) June 18, gage height, 4.03 ft (1.228 m); minimum discharge, 5.6 ft^3/s (0.159 m^3/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	47	65	64	66	142	88	55	68	135	23	8.3
2	39	49	64	66	65	143	65	47	65	162	22	8.1
3	40	52	62	68	62	142	58	40	70	146	20	7.8
4	50	53	61	67	62	137	53	35	65	148	18	7.8
5	56	55	59	64	64	137	51	32	55	167	18	7.6
6	53	57	60	56	65	135	48	30	47	156	16	7.3
7	47	58	61	52	67	137	41	30	44	153	16	7.3
8	45	59	62	49	70	138	36	28	46	146	15	7.0
9	43	59	60	48	73	140	33	28	64	140	15	6.8
10	41	60	59	47	76	142	34	29	61	129	14	6.5
11	40	62	58	47	78	138	32	32	60	121	13	6.3
12	38	64	59	48	81	138	50	29	87	115	13	6.3
13	37	65	60	49	85	138	106	31	62	108	13	6.3
14	36	68	56	50	87	138	119	31	58	105	12	6.3
15	36	68	54	49	90	143	106	30	95	98	12	5.8
16	36	69	57	50	95	146	95	34	150	92	11	5.8
17	36	69	58	50	94	151	98	36	271	85	11	6.3
18	40	69	57	52	94	150	105	36	313	80	11	6.5
19	39	71	56	55	98	148	112	36	294	73	11	6.5
20	40	71	56	58	102	148	116	36	294	64	11	6.3
21	40	73	54	60	108	148	116	36	272	61	11	6.3
22	40	77	57	64	115	148	119	33	261	57	11	6.5
23	44	80	59	64	116	151	134	36	212	47	10	6.5
24	44	84	60	62	121	151	143	36	193	43	9.6	6.3
25	44	85	63	60	123	146	130	36	202	39	9.3	6.3
26	44	85	67	60	122	140	94	38	259	36	9.6	6.0
27	44	75	70	60	121	140	77	40	248	34	9.6	6.0
28	45	66	71	61	130	115	70	41	218	31	9.3	6.0
29	46	65	70	62	---	109	71	48	167	28	8.9	6.3
30	47	67	66	64	---	112	66	80	103	26	8.6	6.5
31	47	---	65	65	---	106	---	74	---	25	8.3	---
TOTAL	1313	1982	1886	1771	2530	4297	2466	1183	4404	2850	400.2	199.6
MEAN	42.4	66.1	60.8	57.1	90.4	139	82.2	38.2	147	91.9	12.9	6.65
MAX	56	85	71	68	130	151	143	80	313	167	23	8.3
MIN	36	47	54	47	62	106	32	28	44	25	8.3	5.8
AC-FT	2600	3930	3740	3510	5020	8520	4890	2350	8740	5650	794	396

CAL YR 1976 TOTAL 57706.0 MEAN 158 MAX 504 MIN 20 AC-FT 114500
WTR YR 1977 TOTAL 25281.8 MEAN 69.3 MAX 313 MIN 5.8 AC-FT 50150

10333000 HUMBOLDT RIVER NEAR IMLAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to November 1950, August 1951 to April 1952, October 1952, February 1960 to current year.
SPECIFIC CONDUCTANCES: October 1975 to current year, monthly.
WATER TEMPERATURES: July 1949 to November 1950, August 1951 to April 1952, October 1952, and February 1960 to June 1961, monthly; November 1961 to October 1962, occasional; November 1962 to October 1968, monthly; November 1968 to September 1969, occasional; October 1969 to current year, monthly.
SEDIMENT DATA: January 1974 to current year, monthly.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 896 micromhos Oct. 20, 1976; minimum, 544 micromhos June 24, 1977.
WATER TEMPERATURES: Maximum, 30.5°C July 26, 1968; minimum, freezing point on some days during winter months of some years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,210 mg/L Feb. 21, 1975; minimum, 9 mg/L Oct. 24, 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE[1]	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	WATER TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
OCT 20...	0805	40	896	5.5	94	10	92	99	100
DEC 23...	0740	E55	838	.0	132	E19	--	--	--
JAN 27...	0835	E60	785	.0	54	E9.0	--	--	--
FEB 23...	0815	115	785	1.5	330	102	--	--	--
MAR 31...	0830	112	710	3.0	253	77	--	--	--
APR 28...	0825	73	680	13.5	294	58	91	97	100
MAY 26...	0840	37	788	13.0	126	13	--	--	--
JUL 27...	1450	34	762	27.5	144	13	--	--	--
AUG 25...	0905	9.6	824	17.0	52	1.3	--	--	--

E: ESTIMATED.

1. SEDIMENT SAMPLE COLLECTED JUNE 24, 1977, WAS NOT PROCESSED IN TIME FOR RESULT TO BE INCLUDED IN THIS REPORT. DATA ARE AVAILABLE FROM U.S. GEOLOGICAL SURVEY OFFICE, CARSON CITY, NV.

10334500 RYE PATCH RESERVOIR NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'15", long 118°18'30", in NW¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, at control works on left end of Rye Patch Dam on Humboldt River, and 2 mi (3 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (4,170 km²), approximately.

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Staff gage on dam read daily. Datum of gage is at mean sea level (Southern Pacific Railroad datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began Feb. 20, 1936. Capacity, 194,300 acre-ft (240 hm³) between elevations 4,072.5 ft (1,241.30 m), sill of trashrack structure, and 4,136.0 ft (1,260.65 m), top of spillway gates (since June 1976). Dead storage negligible. Elevation of spillway (gate sill) is 4,119 ft (1,255.6 m). Figures given herein represent usable contents, and are based on capacity table No. 2, in use since Oct. 1, 1971. Water is used for irrigation in the Lovelock area.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft (243 hm³) Apr. 9, 1946, elevation, 4,134.62 ft (1,260.232 m), capacity table then in use; no contents Aug. 7-11, 1955, May 12 to June 13, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 112,200 acre-ft (138 hm³) Mar. 16-30, elevation, 4,128.80 ft (1,258.458 m); minimum, 50,850 acre-ft (62.7 hm³) Sept. 28-30, elevation, 4,119.50 ft (1,255.624 m).

Capacity table, (elevation, in feet, and contents, in acre-feet)

4,119	48,500	4,125	82,700
4,121	58,300	4,127	97,300
4,123	69,700	4,129	113,900

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106200	99700	98900	102100	105300	108700	111300	104500	86960	81360	66160	57790
2	106200	99700	98900	102100	105300	109600	111300	103700	86250	80690	66160	57280
3	106200	99700	98900	102100	105300	109600	110500	102900	85540	79350	65570	56770
4	106200	99700	98900	102100	105300	109600	110500	102100	84830	78010	64980	56770
5	106200	99700	98900	102100	106200	109600	110500	100500	84830	77340	64390	56770
6	106200	98900	98900	102100	106200	110500	110500	99700	84120	76670	65390	56770
7	106200	98900	98900	102900	106200	110500	110500	98900	83410	76000	63800	56260
8	105300	98900	98900	102900	106200	110500	110500	98100	82700	75370	63800	56260
9	105300	98900	98900	102900	107000	110500	109600	97300	82700	75370	63800	55750
10	105300	98900	98900	102900	107000	110500	109600	96550	82700	74740	63250	55240
11	105300	98900	98900	102900	107000	111300	109600	95800	82700	74740	62700	54730
12	105300	98900	99700	102900	107000	111300	109600	95050	82700	74110	62150	54220
13	105300	98100	99700	102900	107000	111300	109600	95050	82700	74110	61600	54220
14	104500	98100	99700	102900	107900	111300	109600	94300	82700	73480	61600	54220
15	104500	98100	99700	102900	107900	111300	108700	94300	82700	72850	61050	53710
16	104500	98100	99700	103700	107900	112200	108700	93550	82700	72220	61050	53710
17	104500	98100	99700	103700	107900	112200	108700	93550	82700	71590	61050	53200
18	103700	98100	100500	103700	107900	112200	108700	92800	82700	70960	60500	53200
19	103700	98100	100500	103700	107900	112200	107900	92050	82700	70330	59950	52730
20	103700	98100	100500	103700	108700	112200	107900	92050	82700	70330	59950	52730
21	102900	98100	100500	103700	108700	112200	107900	91300	82700	70330	59400	52730
22	102900	98100	100500	103700	108700	112200	107900	90550	82700	69700	59400	52260
23	102100	98100	100500	104500	108700	112200	107900	89800	82700	69700	58850	52260
24	102100	98100	100500	104500	108700	112200	107900	89800	82700	69110	58300	51790
25	101300	98900	100500	104500	108700	112200	107900	89800	82700	68520	58300	51790
26	101300	98900	100500	104500	108700	112200	107900	89090	82700	67930	58300	51790
27	101300	98900	101300	104500	108700	112200	107000	89090	82700	67340	58300	51320
28	100500	98900	101300	104500	108700	112200	106200	88380	82700	67340	57790	50850
29	100500	98900	101300	104500	---	112200	105300	87670	82700	66750	57790	50850
30	100500	98900	101300	104500	---	112200	104500	87670	82030	66750	57790	50850
31	99700	---	101300	104500	---	111300	---	87670	---	66160	57790	---
MAX	106200	99700	101300	104500	108700	112200	111300	104500	86960	81360	66160	57790
MIN	99700	98100	98900	102100	105300	108700	104500	87670	82030	66160	57790	50850
†	4127.30	4127.20	4127.50	4127.90	4128.40	4128.70	4127.90	4125.70	4124.90	4122.40	4120.90	4119.50
‡	-7300	-800	+2400	+3200	+4200	+2600	-6800	-16830	-5640	-15870	-8370	-6940

CAL YR 1976 MAX 170800 MIN 98100 ‡ -40700
WTR YR 1977 MAX 112200 MIN 50850 ‡ -56150

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 40°28'00", long 118°18'20", in SE¼NE¼ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on left bank 1,000 ft (300 m) downstream from Rye Patch Dam and 1.5 mi (2.4 km) northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi² (41,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1935, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,068.53 ft (1,240.088 m) above mean sea level (levels by Bureau of Reclamation). Prior to Oct. 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi (11 km) downstream at different datum. Oct. 1, 1935, to Oct. 13, 1945, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good. Flow completely regulated by Rye Patch Reservoir, capacity 157,200 acre-ft/yr (194 hm³) since Feb. 20, 1936. Many diversions above station for irrigation: Humboldt Decree, 226,000 acres (915 km²); additional acreage not covered by decree.

AVERAGE DISCHARGE.--63 years. (1899-1909, 1910-16, 1917-22, 1930-32, 1935-41, 1943-77), 205 ft³/s (5.806 m³/s), 148,500 acre-ft/yr (183 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s (134 m³/s) May 11, 12, 1952, gage height, 10.26 ft (3.127 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 615 ft³/s (17.4 m³/s) July 1, gage height, 3.55 ft (1.082 m); minimum daily discharge, 2.2 ft³/s (0.06 m³/s) Jan. 25 to Mar. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	120	2.6	3.1	2.2	2.2	150	490	348	551	137	66
2	108	156	2.6	3.1	2.2	2.2	193	506	367	468	190	40
3	90	171	2.6	3.1	2.2	2.2	224	543	388	424	199	48
4	88	166	2.6	3.1	2.2	2.2	225	522	388	402	193	84
5	88	136	2.6	3.1	2.2	2.2	208	489	326	389	185	124
6	103	115	2.6	3.1	2.2	2.2	162	464	269	324	196	147
7	117	97	2.6	3.1	2.2	2.2	133	538	229	325	170	161
8	96	97	2.6	3.1	2.2	2.2	131	556	229	372	134	160
9	55	121	2.6	3.1	2.2	2.2	131	471	149	315	83	146
10	49	128	2.6	3.1	2.2	2.2	148	400	52	291	89	146
11	23	148	2.7	3.1	2.2	2.2	162	411	23	278	116	146
12	37	205	2.8	3.1	2.2	2.2	151	320	12	287	147	88
13	67	205	2.8	3.1	2.2	2.2	149	196	2.5	269	162	50
14	68	179	2.9	3.1	2.2	2.2	153	188	2.5	292	163	64
15	91	107	3.0	3.1	2.2	25	122	223	42	396	150	94
16	130	8.0	3.0	3.1	2.2	77	141	269	75	311	151	107
17	147	3.3	3.0	3.1	2.2	77	155	316	95	247	218	77
18	146	2.9	3.0	3.1	2.2	75	91	316	118	237	248	45
19	163	2.8	3.0	2.9	2.2	95	50	291	167	232	248	70
20	201	2.7	3.0	2.7	2.2	110	79	266	184	201	178	91
21	213	2.6	3.0	2.6	2.2	109	154	249	203	207	133	101
22	192	2.6	3.0	2.5	2.2	108	178	258	217	243	116	108
23	147	2.6	3.0	2.4	2.2	107	146	301	215	263	88	124
24	101	2.6	3.0	2.3	2.2	87	116	287	256	213	88	137
25	137	2.6	3.0	2.2	2.2	69	132	252	305	153	88	118
26	196	2.6	3.0	2.2	2.2	103	192	229	319	163	89	128
27	237	2.6	3.0	2.2	2.2	126	248	241	343	207	89	148
28	204	2.6	3.0	2.2	2.2	175	365	290	374	225	74	148
29	153	2.6	3.0	2.2	---	213	349	246	449	212	65	147
30	128	2.6	3.0	2.2	---	200	423	199	528	173	65	147
31	101	---	3.0	2.2	---	152	---	263	---	119	65	---
TOTAL	3859	2196.7	88.2	86.6	61.6	1938.8	5261	10590	6675.0	8789	4317	3260
MEAN	124	73.2	2.85	2.79	2.20	62.5	175	342	223	284	139	109
MAX	237	205	3.0	3.1	2.2	213	423	556	528	551	248	161
MIN	23	2.6	2.6	2.2	2.2	2.2	50	188	2.5	119	65	40
AC-FT	7650	4360	175	172	122	3850	10440	21010	13240	17430	8560	6470

CAL YR 1976 TOTAL 73336.9 MEAN 200 MAX 606 MIN 2.6 AC-FT 145500
WTR YR 1977 TOTAL 47122.9 MEAN 129 MAX 556 MIN 2.2 AC-FT 93470

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1949 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, May 1962 to current year.

CHEMICAL ANALYSES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to February 1968, once-daily (composited); March 1968 to September 1969, once-daily (composited) and monthly; October 1969 to current year, monthly.

SPECIFIC CONDUCTANCES: December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to current year, once-daily.

BIOLOGICAL AND MICROBIOLOGICAL DATA: October 1974 to current year, monthly.

WATER TEMPERATURES: July 1949 to November 1951 monthly (seasonal); December 1951 to September 1954, May to August 1955, April 1956 to September 1958, April to August 1960, April to July 1961, and May 1962 to current year, once-daily.

SEDIMENT DATA: January 1974 and October 1974 to current year, monthly.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCES: Maximum, 4,010 micromhos Sept. 2, 1954; minimum, 384 micromhos June 24, 1956.

WATER TEMPERATURES: Maximum, 29.5°C July 25, 1968; minimum, 0.5°C on many days during winter months of some years.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 88 mg/L June 18, 1976; minimum, 14 mg/L Dec. 13, 1974.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--

SPECIFIC CONDUCTANCES: Maximum, 1,260 micromhos Mar. 16; minimum, 930 micromhos Nov. 22.

WATER TEMPERATURES: Maximum, 21.0°C July 4-24; minimum, 4.0°C Jan. 5-19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
20...	0925	178	1180	8.8	14.0	10	1	25	170	37	18
DEC											
23...	1010	30	1170	8.5	3.5	15	0	7	--	--	--
JAN											
27...	1050	2.5	1200	8.4	6.0	10	0	4	--	--	--
FEB											
23...	0925	2.3	1200	8.7	5.5	10	0	15	--	--	--
MAR											
31...	0950	180	1250	8.7	5.5	20	0	7	--	--	--
APR											
28...	0950	194	1210	8.6	11.0	20	0	190	180	42	19
MAY											
26...	1030	242	1190	8.6	14.0	10	1	20	--	--	--
JUN											
24...	1010	265	1150	8.4	18.5	15	9	B2400	--	--	--
JUL											
27...	1335	226	1160	8.4	22.0	25	0	130	180	38	20
AUG											
23...	1415	89	1150	8.4	22.5	30	0	120	--	--	--

B: NON-IDEAL COLONY COUNT.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
20...	190	6.4	20	277	11	88	180	.8	30	718	711
DEC											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	190	6.1	20	250	30	93	180	.9	35	730	733
MAY											
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	180	5.9	18	310	3	92	160	.9	37	677	702
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT										
20...	345	.02	.01	.01	.01	.32	.29	.36	.05	.02
DEC										
23...	--	.08	.00	.00	--	.49	--	.57	.06	--
JAN										
27...	--	.03	.00	.00	.00	1.2	.54	1.2	.05	.03
FEB										
23...	--	.03	.00	.01	--	--	--	--	.04	--
MAR										
31...	--	.00	.01	.02	--	.58	--	.61	.07	--
APR										
28...	382	.09	.00	.01	.00	.74	.56	.84	.05	.02
MAY										
26...	--	.01	.00	.02	--	.66	--	.69	.03	--
JUN										
24...	--	.01	.01	.12	--	.82	--	.96	.04	--
JUL										
27...	413	.00	.01	.01	.01	.57	.37	.59	.06	.01
AUG										
23...	--	.04	.01	.05	--	.92	--	1.0	.01	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT												
20...	0925	50	50	<10	0	0	0	<50	0	10	2	810
JAN												
27...	1050	46	44	<10	0	0	0	<50	0	<10	3	540
APR												
28...	0950	40	35	<10	1	0	0	<50	0	10	2	750
JUL												
27...	1335	40	34	40	0	0	0	<50	0	20	1	920

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT											
20...	30	100	0	20	0	.0	.0	0	0	20	10
JAN											
27...	--	<100	0	30	10	.3	.0	1	1	10	0
APR											
28...	30	<100	0	20	0	.0	.0	1	1	10	0
JUL											
27...	10	<100	1	20	0	.0	.0	1	1	20	0

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)
DEC												
23...	1010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG												
23...	1415	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC												
23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG												
23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 20,76	DEC 23,76	JAN 27,77	FEB 23,77
TIME	0925	1010	1050	0925
TOTAL CELLS/ML	1000	780	860	6800
DIVERSITY: DIVISION	0.6	1.6	1.5	0.0
.CLASS	0.6	1.6	1.5	0.0
..ORDER	1.3	2.1	2.0	0.0
...FAMILY	2.0	3.4	2.8	2.1
....GENUS	2.2	3.6	2.9	2.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	120	12	33	4	15	2	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	36	5	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	*	0	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	12	1	9	1	61	7	--	-
....OOCYSTIS	16	2	24	3	--	-	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	490#	48	66	8	77	9	--	-
....SCENEDESMUS	48	5	12	2	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-
...PHACOTACEAE								
....PHACOTUS	200#	20	33	4	15	2	--	-
...VOLVOCACEAE								
....EUDORINA	--	-	36	5	19	2	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	15	2	--	-
....MELOSIRA	*	0	15	2	*	0	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	*	0	--	-	110	2
....COCCONEIS	*	0	12	2	*	0	72	1
....RHOICOSPHENIA	--	-	*	0	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	6	1	*	0	290	4
....EPITHEMIA	--	-	*	0	--	-	--	-
....RHOPALODIA	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 20,76	DEC 23,76	JAN 27,77	FEB 23,77
TIME	0925	1010	1050	0925
TOTAL CELLS/ML	1000	780	860	6800
DIVERSITY: DIVISION	0.6	1.6	1.5	0.0
.CLASS	0.6	1.6	1.5	0.0
..ORDER	1.3	2.1	2.0	0.0
...FAMILY	2.0	3.4	2.8	2.1
....GENUS	2.2	3.6	2.9	2.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...DIATOMACEAE								
....DIATOMA	*	0	24	3	27	3	140	2
...EUNOTIACEAE								
....EUNOTIA	--	-	*	0	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	*	0	190#	24	280#	33	--	-
....FRAGILARIA	--	-	6	1	--	-	3300#	48
....SYNEDRA	--	-	--	-	11	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	9	1	8	1	110	2
...NAVICULACEAE								
....NAVICULA	8	1	24	3	23	3	1200#	18
....PINNULARIA	--	-	--	-	--	-	72	1
...NITZSCHIACEAE								
....HANTZSCHIA	--	-	*	0	*	0	72	1
....NITZSCHIA	--	-	24	3	8	1	1300#	19
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	110	2
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	--	-	--	-	*	0	--	-
....ANACYSTIS	--	-	180#	23	250#	29	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	99	10	--	-	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	*	0	--	-	--	-
....OSCILLATORIA	--	-	30	4	38	4	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 28,77		JUN 24,77		JUL 27,77		AUG 23,77	
TIME	0950		1010		1335		1415	
TOTAL CELLS/ML	1000		410		2200		640	
DIVERSITY: DIVISION	0.8		1.0		1.2		0.5	
.CLASS	0.8		1.0		1.2		0.5	
..ORDER	1.3		1.8		1.6		0.8	
...FAMILY	1.7		2.6		1.7		1.0	
....GENUS	1.8		2.7		1.7		1.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	21	2	12	3	--	-	3	1
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	63	6	--	-	--	-	--	-
....OOCYSTIS	21	2	--	-	28	1	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	130	12	--	-	730#	33	66	10
....SCENEDESMUS	--	-	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	12	3	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	160#	40	210	10	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
...VOLVOCACEAE								
....EUDORINA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	150	14	*	0	--	-	--	-
....MELOSIRA	*	0	97#	24	56	3	320#	49
....STEPHANODISCUS	--	-	--	-	--	-	210#	33
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	*	0	--	-	--	-	--	-
....COCCONEIS	*	0	--	-	--	-	7	1
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	*	0	12	3	--	-	7	1
....CYMBELLA	--	-	--	-	--	-	--	-
....EPITHEMIA	*	0	--	-	14	1	--	-
....RHOPALODIA	*	0	--	-	14	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 28,77	JUN 24,77	JUL 27,77	AUG 23,77
TIME	0950	1010	1335	1415
TOTAL CELLS/ML	1000	410	2200	640
DIVERSITY: DIVISION	0.8	1.0	1.2	0.5
.CLASS	0.8	1.0	1.2	0.5
..ORDER	1.3	1.8	1.6	0.8
...FAMILY	1.7	2.6	1.7	1.0
....GENUS	1.8	2.7	1.7	1.8

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...DIATOMACEAE								
....DIATOMA	*	0	18	4	--	-	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	640#	62	24	6	--	-	10	2
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	*	0	12	3	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	*	0	30	7	28	1	--	-
...NAVICULACEAE								
....NAVICULA	--	-	24	6	--	-	20	3
....PINNULARIA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....HANTZSCHIA	--	-	--	-	--	-	--	-
....NITZSCHIA	21	2	6	1	--	-	--	-
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	1100#	51	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Retrieval Date	Length of exposure Polyethylene strip (days)	Biomass (mg/m²) Dry weight	Biomass (mg/m²) Ash weight	Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
May 26	29	9,690	6,460	0.069	0.000	4,681
Aug 23	28	77,600	64,600	0.242	0.052	77,600

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT								
20...	0925	178	64	31	--	--	--	--
DEC								
23...	1010	30	42	3.4	--	--	--	--
JAN								
27...	1050	2.5	16	.11	--	--	--	--
FEB								
23...	0925	2.3	17	.11	--	--	--	--
MAR								
31...	0950	180	67	33	--	--	--	--
APR								
28...	0950	194	69	36	76	87	97	100
MAY								
26...	1030	242	40	26	--	--	--	--
JUN								
24...	1010	265	55	39	--	--	--	--
JUL								
27...	1335	226	84	51	--	--	--	--
AUG								
23...	1415	89	72	17	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	1180	1100	1140	1130	1150	1230	1230	1190	1160	1140	1160
2	1200	1220	940	1170	1010	1140	1240	1230	1180	1150	1140	1170
3	1210	1220	1130	1050	1130	1140	1240	1230	1180	1160	1150	1140
4	1210	1220	1130	1110	1150	1140	1250	1230	1170	1160	1150	1170
5	1210	1220	1100	1170	1180	1140	1240	1210	1140	1140	1150	1170
6	1210	1210	1120	1100	1170	1140	1230	1210	1140	1140	1120	1170
7	1220	1210	1160	1190	1140	1140	1240	1200	1170	1140	1150	1180
8	1220	1220	1150	1180	1160	1140	1240	1210	1190	1150	1160	1180
9	1200	1190	1140	1170	1160	1130	1220	1210	1120	1140	1150	1180
10	1210	1210	1140	1190	1090	1120	1240	1210	1180	1140	1140	1170
11	1170	1220	1130	1180	1200	1130	1230	1210	1160	1140	1150	1180
12	1200	1220	1130	1180	1190	1120	1240	1210	1150	1130	1140	1170
13	1200	1210	1140	1180	1170	1110	1230	1210	1120	1140	1120	1180
14	1200	1200	1130	1170	1170	1150	1220	1200	1120	1140	1150	1180
15	1210	1220	1070	1200	1200	1090	1220	1200	1120	1150	1140	1180
16	1210	1130	1180	1130	1200	1260	1220	1200	1190	1140	1140	1190
17	1210	1120	1130	1180	1190	1240	1230	1200	1150	1150	1170	1180
18	1210	1060	1120	1170	1160	1230	1220	1200	1180	1140	1150	1180
19	1210	1060	1180	1180	1170	1230	1170	1200	1150	1140	1160	1180
20	1210	1010	1160	1170	1160	1230	1220	1200	1160	1140	1170	1170
21	1220	1010	1110	1130	1190	1240	1220	1200	1150	1130	1120	1180
22	1220	930	1160	1130	1160	1220	1220	1200	1150	1150	1160	1180
23	1220	1120	---	1160	1190	1200	1220	1200	1170	1140	1140	1180
24	1210	1010	1060	1170	1190	1200	1220	1190	1150	1160	1150	1180
25	1210	1140	1160	1150	1190	1210	1220	1200	1150	1150	1140	1180
26	1210	1110	1150	1170	1190	1240	1210	1200	1160	1140	1140	1180
27	1220	1140	1160	1160	1190	1240	1210	1190	1160	1160	1140	1170
28	1210	1010	1160	1160	1190	1240	1210	1200	1150	1150	1140	1180
29	1200	990	1090	1160	---	1240	1210	1190	1150	1160	1140	1190
30	1200	1120	1170	1180	---	1240	1210	1190	1150	1140	1140	1190
31	1200	---	1090	1170	---	1240	---	1190	---	1160	1140	---
MEAN	1208	1137	1126	1159	1165	1183	1224	1204	1156	1146	1144	1176
MAX	1220	1220	1180	1200	1200	1260	1250	1230	1190	1160	1170	1190
MIN	1170	930	940	1050	1010	1090	1170	1190	1120	1130	1120	1140

WTR YR 1977 MEAN 1169 MAX 1260 MIN 930

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	10.5	6.5	4.5	5.0	7.5	8.0	9.5	12.0	20.0	20.5	18.0
2	16.5	10.5	6.0	4.5	5.0	8.0	8.0	9.5	12.5	20.5	20.5	18.0
3	16.5	10.5	6.0	4.5	5.0	8.0	8.0	10.0	12.5	20.5	20.5	18.0
4	16.0	10.5	6.0	4.5	5.0	8.0	8.0	10.0	13.0	21.0	20.5	18.0
5	16.0	10.0	6.0	4.0	5.0	8.0	8.0	10.0	13.0	21.0	20.5	18.0
6	16.0	10.0	5.5	4.0	5.5	8.0	8.0	10.0	13.5	21.0	20.5	18.0
7	16.0	10.0	5.5	4.0	5.5	8.0	8.0	10.0	13.5	21.0	20.5	18.0
8	16.0	10.0	5.5	4.0	5.5	8.0	8.0	10.0	13.5	21.0	20.5	18.0
9	16.0	10.0	5.5	4.0	6.0	8.0	8.0	10.0	13.5	21.0	20.5	18.0
10	16.0	10.0	5.0	4.0	6.0	8.0	8.5	10.0	14.0	21.0	20.5	18.0
11	16.0	9.5	5.0	4.0	6.0	8.0	8.5	10.0	14.0	21.0	20.5	18.0
12	16.0	9.5	5.0	4.0	6.0	8.0	8.5	10.0	14.0	21.0	20.5	17.5
13	15.5	9.5	5.0	4.0	6.0	8.0	8.5	10.0	14.0	21.0	20.0	17.5
14	15.0	9.5	5.0	4.0	6.5	8.0	8.5	10.5	14.5	21.0	20.0	17.5
15	14.5	9.0	5.0	4.0	6.5	8.0	8.5	10.5	14.5	21.0	20.0	17.5
16	14.0	9.0	5.0	4.0	7.0	8.0	8.5	10.5	14.5	21.0	20.0	17.0
17	14.0	9.0	5.0	4.0	7.0	8.0	8.5	10.5	15.0	21.0	20.0	17.0
18	14.0	9.0	5.0	4.0	7.0	8.0	8.5	10.5	15.0	21.0	20.0	17.0
19	13.5	9.0	5.0	4.0	7.5	8.0	8.5	11.0	15.5	21.0	20.0	16.5
20	13.5	8.5	5.0	4.5	7.5	8.0	9.0	11.0	15.5	21.0	19.5	16.5
21	13.5	8.5	5.0	4.5	7.5	8.0	9.0	11.0	16.0	21.0	19.5	16.5
22	13.0	8.5	4.5	4.5	7.5	8.0	9.0	11.0	16.5	21.0	19.5	16.0
23	12.5	8.0	4.5	4.5	7.5	8.0	9.0	11.0	17.0	21.0	19.5	16.0
24	12.5	8.0	4.5	4.5	7.5	8.0	9.0	11.5	17.5	21.0	19.0	15.5
25	12.0	8.0	4.5	4.5	7.5	8.0	9.0	11.5	17.5	20.5	19.0	15.5
26	12.0	7.5	4.5	4.5	7.5	8.0	9.0	11.5	17.5	20.5	19.0	15.0
27	12.0	7.0	4.5	4.5	7.5	8.0	9.0	11.5	18.0	20.5	19.0	15.0
28	11.5	7.0	4.5	4.5	7.5	8.0	9.5	11.5	18.0	20.5	18.5	15.0
29	11.5	6.5	4.5	4.5	---	8.0	9.5	11.5	18.5	20.5	18.5	15.0
30	11.0	6.5	4.5	5.0	---	8.0	9.5	12.0	19.0	20.5	18.5	15.0
31	11.0	---	4.5	5.0	---	8.0	---	12.0	---	20.5	18.0	---
MEAN	14.1	8.9	5.0	4.2	6.4	7.9	8.5	10.6	15.1	20.8	19.7	16.8
MAX	16.5	10.5	6.5	5.0	7.5	8.0	9.5	12.0	19.0	21.0	20.5	18.0
MIN	11.0	6.5	4.5	4.0	5.0	7.5	8.0	9.5	12.0	20.0	18.0	15.0

WTR YR 1977 MEAN 11.5 MAX 21.0 MIN 4.0

10336500 PYRAMID LAKE NEAR NIXON, NV

LOCATION.--Lat 39°59'05", long 119°30'00", in NE¼NW¼ sec.3, T.24 N., R.22 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, 0.25 mi (0.40 km) north of the Pyramid, 1.6 mi (2.6 km) northeast of Anaho Island, and 13 mi (21 km) northwest of Nixon.

DRAINAGE AREA.--2,720 mi^2 (7,040 km^2).

PERIOD OF RECORD.--1867-1925 (occasional elevations in some years), June 1926 to current year (occasional elevations in each year).

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WRD 1967 NV: 1966.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level, U.S. Coast & Geodetic Survey Bench Mark N-21, elevation, 3,940.29 ft (1,201.000 m) datum of 1929, supplementary adjustment of 1956. Prior to January 1934, elevations were determined from Bench Mark No. 1 of General Land Office using elevation of 3,882.26 ft (1,183.313 m), adjustment of 1912; to convert these records to present datum, add 0.81 ft (0.247 m). January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevation of 3,940.04 ft (1,200.924 m), datum of 1929; to convert these records to present datum, add 0.25 ft (0.076 m). October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir. Elevations are given to the nearest 0.1 ft and contents to 4 significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published for 1867 and 1871 may have been 9 ft (2.7 m) lower because of uncertainty of date of photograph on which they were based.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,884.9 ft (1,184.12 m) in 1871 (see remarks paragraph); minimum observed, 3,783.9 ft (1,153.33 m) Feb. 6, Mar. 6, 1967.

MONTHEND ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sep. 30	3,796.5	21,340,000	--
Oct. 31	3,796.3	21,310,000	-30,000
Nov. 30	3,796.0	21,280,000	-30,000
Dec. 31	3,795.7	21,250,000	-30,000
CAL YR 1976	--	--	-150,000
Jan. 31	3,795.6	21,240,000	-10,000
Feb. 28	3,795.5	21,220,000	-20,000
Mar. 31	3,795.3	21,200,000	-20,000
Apr. 30	3,795.2	21,190,000	-10,000
May 31	3,795.2	21,190,000	0
June 30	3,795.1	21,180,000	-10,000
July 31	3,794.8	21,150,000	-30,000
Aug. 31	3,794.1	21,070,000	-80,000
Sep. 30	3,793.6	21,020,000	-50,000
WTR YR 1976-77	--	--	-320,000

NOTE.--Monthend elevations are interpolated from readings made during the month.

10336600 UPPER TRUCKEE RIVER NEAR MEYERS, CA

LOCATION.--Lat 38°50'35", long 120°01'25", in NE¼SE¼ sec.31, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 0.4 mi (0.6 km) upstream from mouth of Echo Lake outlet, 1.1 mi (1.8 km) southwest of Meyers, and 2.5 mi (4.0 km) upstream from Angora Creek.

DRAINAGE AREA.--33.1 mi^2 (85.7 km^2).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,325 ft (1,928 m), from topographic map.

REMARKS.--Records good except those for the winter months and July and August, which are poor. No regulation. Some small diversions above station for domestic use.

AVERAGE DISCHARGE.--17 years, 62.2 ft^3/s (1.762 m^3/s), 45,060 acre-ft/yr (55.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) Feb. 1, 1963, gage height, 12.41 ft(3.783 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Aug. 31 to Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 155 ft^3/s (4.39 m^3/s) June 1, gage height, 5.56 ft (1.695 m), no peak above base of 200 ft^3/s (5.66 m^3/s); minimum daily discharge, 1.5 ft^3/s (0.042 m^3/s) Aug. 31 to Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	4.2	4.0	4.3	4.4	6.2	8.9	47	106	12	2.5	1.5
2	16	4.2	4.0	4.9	4.4	6.0	9.0	43	96	12	2.4	1.5
3	11	4.2	4.0	4.7	4.4	6.1	9.3	39	84	14	2.3	1.5
4	7.5	4.1	4.0	4.6	4.4	5.9	11	32	89	13	2.3	1.5
5	6.2	4.1	4.0	4.4	4.5	5.9	16	33	89	12	2.3	1.5
6	5.5	4.2	4.0	4.3	4.3	6.4	23	31	91	11	2.3	1.5
7	5.0	4.1	4.0	4.2	4.5	6.6	33	29	80	10	2.3	1.5
8	4.7	4.2	4.0	4.2	4.7	6.8	39	29	69	10	2.3	1.7
9	4.5	4.1	4.0	4.2	4.6	7.3	35	30	98	9.4	2.4	1.7
10	4.3	4.1	4.0	4.2	4.6	6.9	31	28	109	8.8	2.4	1.7
11	4.3	4.2	4.0	4.2	4.7	6.5	32	28	74	8.3	2.4	1.8
12	4.0	4.7	4.0	4.2	4.8	7.0	37	28	63	7.7	2.3	1.8
13	4.2	3.9	4.0	4.2	5.0	6.8	47	32	55	7.2	2.1	1.9
14	4.2	6.7	4.0	4.2	5.2	6.3	49	48	49	7.2	2.1	1.9
15	4.2	6.3	4.0	4.2	5.4	6.4	52	53	45	7.9	1.9	1.9
16	4.4	6.0	4.1	4.2	5.7	6.6	72	45	41	7.5	1.9	2.2
17	4.4	5.4	4.1	4.2	6.0	6.5	75	38	37	8.3	1.9	2.6
18	4.2	5.0	4.1	4.2	6.2	6.2	62	37	34	8.3	2.1	2.6
19	3.9	4.7	4.1	4.4	6.1	6.6	49	38	31	8.7	2.1	2.7
20	4.1	4.5	4.1	4.4	5.7	6.9	46	58	29	9.8	2.1	3.2
21	4.6	4.4	4.1	4.7	10	7.5	48	77	26	11	2.1	2.5
22	4.2	4.3	4.2	4.7	8.7	9.1	55	84	24	8.8	2.0	2.4
23	4.7	4.3	4.3	4.4	7.3	10	74	71	20	5.6	1.9	2.4
24	4.7	4.2	4.2	4.4	6.9	9.6	72	61	23	4.4	1.8	2.4
25	4.7	4.0	4.3	4.4	6.3	8.7	71	52	20	3.9	2.0	2.3
26	4.4	3.9	4.3	4.4	6.2	8.6	66	48	17	3.6	2.2	2.3
27	4.4	3.6	4.3	4.4	6.2	9.2	66	48	16	3.3	1.9	2.4
28	4.4	3.9	4.3	4.4	6.4	9.5	64	54	15	3.1	1.8	2.4
29	4.2	4.0	4.4	4.4	---	9.1	58	64	14	2.9	1.7	2.4
30	4.2	4.0	4.2	4.6	---	9.1	52	78	13	2.7	1.6	2.5
31	4.2	---	4.3	4.4	---	8.6	---	97	---	2.6	1.5	---
TOTAL	161.2	133.5	127.4	135.6	157.6	228.9	1362.2	1480	1557	245.0	64.9	62.2
MEAN	5.20	4.45	4.11	4.37	5.63	7.38	45.4	47.7	51.9	7.90	2.09	2.07
MAX	16	6.7	4.4	4.9	10	10	75	97	109	14	2.5	3.2
MIN	3.9	3.6	4.0	4.2	4.3	5.9	8.9	28	13	2.6	1.5	1.5
AC-FT	320	265	253	269	313	454	2700	2940	3090	486	129	123

CAL YR 1976 TOTAL 8200.5 MEAN 22.4 MAX 207 MIN 2.8 AC-FT 16270
WTR YR 1977 TOTAL 5715.5 MEAN 15.7 MAX 109 MIN 1.5 AC-FT 11340

10336625 FALLEN LEAF LAKE NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°54'00", long 120°04'14", in NE¼SW¼ sec.11, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank near center of lake, 200 ft (61 m) north of Cathedral Creek, 1.5 mi (2.4 km) south of Fallen Leaf Dam, 2.9 mi (4.7 km) southwest of Camp Richardson, and 3.7 mi (6.0 km) west of South Lake Tahoe Post Office.

DRAINAGE AREA.--16.7 mi² (43.3 km²).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,372.30 ft (1,942.277 m) above mean sea level.

REMARKS.--Lake levels regulated by a concrete dam at the outlet constructed in 1934. Regulation is for maintenance of lake level and enhancement of fishery.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.51 ft (1.679 m) Jan. 22, 1970; minimum, 1.79 ft (0.546 m) Jan. 2, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.50 ft (1.372 m) May 13; minimum, 1.79 ft (0.546 m) Jan. 2.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.26	2.56	2.06	1.80	1.86	2.13	2.35	4.05	4.42	4.32	3.85	3.28
2	3.25	2.53	2.05	1.92	1.85	2.12	2.35	4.10	4.46	4.32	3.84	3.27
3	3.24	2.50	2.04	1.96	1.86	2.11	2.35	4.14	4.46	4.30	3.83	3.25
4	3.22	2.46	2.03	1.96	1.85	2.11	2.36	4.17	4.45	4.27	3.81	3.24
5	3.20	2.44	2.02	1.95	1.85	2.11	2.39	4.22	4.45	4.25	3.78	3.23
6	3.18	2.43	2.00	1.95	1.85	2.10	2.43	4.25	4.43	4.24	3.74	3.21
7	3.17	2.38	1.98	1.95	1.83	2.07	2.49	4.30	4.43	4.23	3.72	3.20
8	3.16	2.37	1.97	1.95	1.85	2.06	2.57	4.37	4.42	4.22	3.69	3.18
9	3.14	2.32	1.95	1.94	1.85	2.14	2.63	4.39	4.46	4.18	3.68	3.17
10	3.11	2.30	1.94	1.93	1.85	2.14	2.67	4.41	4.46	4.17	[illegible].67	3.16
11	3.08	2.27	1.94	1.93	1.85	2.13	2.69	4.44	4.42	4.17	3.65	3.15
12	3.07	2.25	1.94	1.92	1.85	2.16	2.73	4.49	4.37	4.15	3.62	3.14
13	3.05	2.22	1.93	1.92	1.85	2.17	2.80	4.49	4.32	4.13	3.61	3.13
14	3.03	2.30	1.93	1.92	1.85	2.17	2.84	4.46	4.28	4.12	3.60	3.10
15	3.00	2.28	1.92	1.92	1.85	2.16	2.91	4.43	4.26	4.11	3.57	3.05
16	2.97	2.26	1.91	1.91	1.85	2.17	2.98	4.42	4.25	4.11	3.56	3.01
17	2.95	2.25	1.91	1.90	1.85	2.18	3.09	4.37	4.25	4.10	3.55	2.99
18	2.93	2.24	1.91	1.90	1.86	2.18	3.15	4.31	4.25	4.07	3.54	2.96
19	2.91	2.22	1.90	1.90	1.86	2.18	3.19	4.26	4.25	4.04	3.53	2.99
20	2.89	2.20	1.90	1.90	1.85	2.19	3.25	4.26	4.26	4.03	3.52	2.97
21	2.87	2.18	1.90	1.91	2.08	2.20	3.29	4.29	4.27	4.02	3.52	2.96
22	2.86	2.17	1.88	1.91	2.08	2.21	3.35	4.37	4.27	4.00	3.51	2.93
23	2.83	2.16	1.87	1.90	2.13	2.27	3.42	4.37	4.28	3.98	3.48	2.91
24	2.80	2.15	1.86	1.90	2.13	2.29	3.49	4.36	4.29	3.96	3.43	2.88
25	2.77	2.14	1.85	1.90	2.13	2.29	3.58	4.32	4.30	3.93	3.40	2.87
26	2.73	2.11	1.84	1.90	2.13	2.29	3.64	4.31	4.31	3.92	3.37	2.87
27	2.69	2.09	1.84	1.89	2.12	2.31	3.73	4.27	4.32	3.90	3.36	2.85
28	2.67	2.07	1.83	1.88	2.13	2.31	3.81	4.25	4.32	3.88	3.35	2.82
29	2.63	2.06	1.80	1.88	---	2.32	3.88	4.27	4.32	3.87	3.33	2.80
30	2.60	2.06	1.81	1.88	---	2.33	3.96	4.30	4.32	3.86	3.32	2.78
31	2.57	---	1.81	1.87	---	2.34	---	4.36	---	3.86	3.30	---
MEAN	2.96	2.27	1.92	1.91	1.93	2.19	3.01	4.32	4.35	4.09	3.57	3.05
MAX	3.26	2.56	2.06	1.96	2.13	2.34	3.96	4.49	4.46	4.32	3.85	3.28
MIN	2.57	2.06	1.80	1.80	1.83	2.06	2.35	4.05	4.25	3.86	3.30	2.78

CAL YR 1976 MAX 4.07 MIN 1.80
WTR YR 1977 MAX 4.49 MIN 1.80

10336626 TAYLOR CREEK NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°55'18", long 120°03'37", in NE¼NW¼ sec.2, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank 0.1 mi (0.2 km) downstream from Fallen Leaf Lake outlet, and 1.4 mi (2.3 km) southwest of Camp Richardson.

DRAINAGE AREA.--16.7 mi^2 (43.3 km^2).

PERIOD OF RECORD.--October 1968 to current year. Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft (1,938.857 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Fallen Leaf Lake Dam (station 10336625).

AVERAGE DISCHARGE (unadjusted).--9 years, 43.0 ft^3/s (1.218 m^3/s), 31,150 acre-ft/yr (38.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Nov. 12, 1973, gage height, 5.72 ft (1.743 m); minimum daily, 0.20 ft^3/s (0.006 m^3/s) Oct. 4-7, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft^3/s (2.01 m^3/s) May 14, gage height, 3.71 ft (1.131 m); minimum daily, 0.89 ft^3/s (0.025 m^3/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	4.2	2.3	2.4	7.6	2.4	2.3	59	3.4	1.3	1.6
2	11	16	4.1	2.9	2.3	7.2	2.3	2.4	68	2.8	1.6	1.5
3	11	16	4.1	4.1	2.3	7.1	2.3	2.4	68	2.7	1.9	1.4
4	11	16	3.9	3.6	2.3	6.6	2.4	2.3	68	2.5	2.2	1.3
5	11	16	3.6	3.5	2.2	6.5	2.3	2.3	68	2.4	2.0	1.7
6	11	16	3.4	3.3	2.2	7.0	2.3	2.3	68	2.6	2.4	1.8
7	11	16	3.3	3.3	2.3	7.2	2.3	2.5	68	2.5	2.4	2.1
8	11	16	3.6	3.3	2.7	6.0	2.3	2.5	67	2.5	2.6	1.4
9	11	16	2.5	3.3	2.3	7.9	2.5	2.7	68	2.6	2.0	1.2
10	11	15	2.1	3.2	2.2	4.7	4.6	3.2	69	2.3	1.1	1.1
11	10	15	2.0	3.0	2.3	1.9	6.1	3.0	68	2.3	1.0	1.0
12	9.9	13	2.0	3.3	2.4	2.0	2.5	6.9	67	2.6	1.5	.99
13	9.9	12	2.0	2.9	2.3	1.9	2.6	26	58	2.3	1.4	1.2
14	9.9	13	1.9	2.9	2.3	2.1	2.6	52	43	2.4	1.3	1.2
15	9.9	13	1.9	2.9	2.2	2.3	2.5	68	29	2.5	2.1	1.2
16	9.9	13	2.0	2.8	2.3	2.3	2.0	67	25	2.1	1.8	1.2
17	9.9	12	2.4	2.8	2.4	2.3	1.6	68	21	2.2	1.8	1.4
18	9.9	11	3.0	2.9	2.5	2.3	1.7	67	14	2.2	1.4	1.5
19	9.9	10	2.9	2.9	2.5	2.3	1.5	58	11	2.8	1.3	1.5
20	10	9.6	3.0	2.9	2.9	2.1	1.5	45	8.1	2.9	1.4	1.6
21	12	9.0	2.8	2.9	5.3	2.1	1.5	40	6.2	3.2	1.6	1.4
22	13	8.4	2.7	2.9	6.2	1.8	1.5	46	6.2	2.4	1.3	1.2
23	13	7.7	2.6	2.9	7.8	1.8	1.7	67	5.0	2.0	1.0	1.5
24	13	7.2	2.4	2.9	7.5	1.8	2.1	67	1.6	2.1	.89	1.4
25	13	6.8	2.4	2.8	7.5	1.8	2.2	67	1.7	2.3	.90	1.3
26	15	6.5	2.4	2.8	7.4	1.7	2.4	67	2.3	2.6	1.1	1.1
27	16	5.6	2.3	2.8	7.2	1.7	2.6	66	2.8	2.4	1.4	1.2
28	16	5.1	2.3	2.6	7.2	2.0	2.6	56	2.0	2.1	1.5	1.4
29	16	4.7	2.3	2.6	---	2.6	2.6	47	2.3	1.5	1.3	2.6
30	16	4.4	2.1	2.5	---	2.4	2.5	47	3.7	1.6	1.1	4.9
31	16	---	2.1	2.8	---	2.4	---	47	---	1.5	1.3	---
TOTAL	368.2	346.0	84.3	92.6	103.4	111.4	72.0	1102.8	1048.9	74.3	47.89	45.89
MEAN	11.9	11.5	2.72	2.99	3.69	3.59	2.40	35.6	35.0	2.40	1.54	1.53
MAX	16	16	4.2	4.1	7.8	7.9	6.1	68	69	3.4	2.6	4.9
MIN	9.9	4.4	1.9	2.3	2.2	1.7	1.5	2.3	1.6	1.5	.89	.99
AC-FT	730	686	167	184	205	221	143	2190	2080	147	95	91

CAL YR 1976 TOTAL 4797.30 MEAN 13.1 MAX 141 MIN 1.5 AC-FT 9520
WTR YR 1977 TOTAL 3497.68 MEAN 9.58 MAX 69 MIN .89 AC-FT 6940

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA

LOCATION.--Lat 39°06'27", long 120°09'40", in NW¼NE¼ sec.36, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, on right bank 300 ft (91 m) upstream from bridge on State Highway 89, 1,000 ft (305 m) upstream from Lake Tahoe, and 4.6 mi (7.4 km) south of Tahoe City.

DRAINAGE AREA.--11.2 mi^2 (29.0 km^2).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m), from topographic map. Oct. 1, 1964, to Aug. 27, 1970, at site 400 ft (122 m) downstream at datum 12 ft (3.658 m) lower. Prior to Oct. 1, 1964, at site 400 ft (122 m) downstream at datum 10.25 ft (3.124 m) lower.

REMARKS.--Records good except those for the winter months, which are fair. No known diversion or regulation.

AVERAGE DISCHARGE.--17 years, 35.7 ft^3/s (1.011 m^3/s), 25,860 acre-ft/yr (31.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft^3/s (59.5 m^3/s) Dec. 22 or 24, 1964, from indirect measurement of peak flow; maximum gage height, 9.90 ft (3.018 m) Dec. 22, 1964; minimum discharge, 0.30 ft^3/s (0.008 m^3/s) Sept. 19, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft^3/s (2.49 m^3/s) June 1, gage height, 1.42 ft (0.433 m), no peak above base of 200 ft^3/s (5.66 m^3/s); minimum daily, 1.1 ft^3/s (0.031 m^3/s) Sept. 8, 10-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.4	2.1	1.8	2.0	3.0	5.4	29	70	6.5	2.0	1.3
2	6.5	2.4	2.1	2.1	2.0	3.0	5.6	24	64	6.6	2.0	1.4
3	3.4	2.4	2.1	2.1	2.0	3.0	5.9	22	57	6.9	2.0	1.4
4	2.7	2.5	2.1	2.1	2.0	2.9	6.9	19	60	6.0	2.0	1.4
5	2.7	2.4	2.1	2.1	2.1	3.0	12	19	60	5.6	1.9	1.3
6	2.7	2.4	2.1	2.1	2.0	3.0	18	17	59	5.3	1.9	1.2
7	2.7	2.4	2.1	2.1	2.1	3.1	24	16	53	4.9	1.8	1.2
8	2.7	2.4	2.1	2.1	2.3	3.2	26	16	44	4.7	1.8	1.1
9	2.6	2.4	2.2	2.0	2.2	3.2	20	16	54	4.5	1.8	1.2
10	2.5	2.3	2.2	2.1	2.2	3.3	17	15	45	4.3	1.8	1.1
11	2.5	2.3	2.1	2.1	2.2	3.3	17	14	34	4.1	1.8	1.1
12	2.5	2.3	2.0	2.1	2.2	3.4	20	15	29	3.9	1.9	1.1
13	2.5	2.3	1.9	2.1	2.3	3.4	25	19	26	3.8	1.9	1.1
14	2.4	3.1	1.8	2.0	2.3	3.4	26	28	23	3.6	1.7	1.1
15	2.4	2.8	1.8	2.0	2.3	3.5	27	28	21	3.4	1.7	1.3
16	2.4	2.7	1.8	2.1	2.4	3.4	35	24	19	3.3	1.7	1.3
17	2.4	2.6	1.8	2.1	2.3	3.3	33	20	17	3.1	1.6	1.3
18	2.4	2.5	1.8	2.1	2.3	3.3	28	20	15	3.1	1.7	1.4
19	2.4	2.5	1.8	2.0	2.4	3.3	24	23	14	2.9	1.8	1.4
20	2.4	2.4	1.8	2.0	2.4	3.4	25	34	14	2.9	1.8	1.6
21	2.4	2.3	1.8	2.0	5.0	3.7	26	45	12	2.9	1.7	1.4
22	2.5	2.3	1.8	1.9	4.5	4.4	29	46	12	2.7	1.6	1.4
23	2.7	2.3	1.8	1.9	3.9	5.2	33	40	11	2.5	1.6	1.4
24	2.6	2.3	1.7	2.0	3.5	4.9	35	34	10	2.5	1.5	1.4
25	2.5	2.2	1.7	2.0	3.2	4.9	32	35	9.7	2.5	1.5	1.3
26	2.5	2.2	1.7	2.0	3.1	4.7	31	40	8.5	2.3	1.9	1.3
27	2.5	2.1	1.7	2.1	3.0	5.1	30	49	7.8	2.3	1.7	1.3
28	2.4	2.1	1.7	2.0	3.0	5.2	32	46	7.8	2.3	1.6	1.3
29	2.4	2.1	1.7	2.0	---	5.3	31	49	7.4	2.3	1.6	1.3
30	2.4	2.1	1.7	2.0	---	5.3	29	55	7.0	2.0	1.5	1.3
31	2.4	---	1.7	2.0	---	5.3	---	64	---	2.0	1.5	---
TOTAL	83.3	71.5	58.8	63.1	73.2	118.4	708.8	921	871.2	115.7	54.3	38.7
MEAN	2.69	2.38	1.90	2.04	2.61	3.82	23.6	29.7	29.0	3.73	1.75	1.29
MAX	6.5	3.1	2.2	2.1	5.0	5.3	35	64	70	6.9	2.0	1.6
MIN	2.4	2.1	1.7	1.8	2.0	2.9	5.4	14	7.0	2.0	1.5	1.1
AC-FT	165	142	117	125	145	235	1410	1830	1730	229	108	77

CAL YR 1976 TOTAL 4634.2 MEAN 12.7 MAX 96 MIN 1.7 AC-FT 9190
WTR YR 1977 TOTAL 3178.0 MEAN 8.71 MAX 70 MIN 1.1 AC-FT 6300

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

LOCATION.--Lat 39°07'56", long 120°09'24", in NW¼SE¼ sec.24, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on right bank 165 ft (50 m) downstream from State Highway 89 bridge, 2.1 mi (3.4 km) north of Tahoe Pines, and 2.6 mi (4.2 km) southwest of Tahoe City.

DRAINAGE AREA.--9.70 mi^2 (25.1 km^2).

PERIOD OF RECORD.--October 1972 to September 1976, October 1976 to current year (winter months only).

GAGE.--Water-stage recorder. Altitude of gage is 6,230 ft (1,899 m), from topographic map.

REMARKS.--Records good except those for the winter periods, which are poor. Minor diversion for local water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft^3/s (22.7 m^3/s) Nov. 12, 1973, gage height, 6.65 ft (2.027 m), from rating extended above 310 ft^3/s (8.78 m^3/s); maximum gage height, 7.18 ft (2.188 m) Dec. 17, 1972 (backwater from ice); minimum daily discharge, 0.47 ft^3/s (0.013 m^3/s) Aug. 13, 1976. There was no flow observed on many days during the summer of 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft^3/s (1.42 m^3/s) June 1, gage height, 4.85 ft (1.478 m), no peak above base of 100 ft^3/s (2.83 m); maximum gage height, 5.34 ft (1.628 m) Apr. 5 (backwater from ice); no flow observed for many days during summer months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.6	.80	.90	1.2	2.0	3.4	17				
2	5.9	1.6	.80	1.1	1.2	2.0	3.4	15				
3	2.7	1.6	.80	1.5	1.2	1.9	4.0	13				
4	1.7	1.4	.80	1.5	1.3	1.9	8.0	13				
5	1.6	1.4	.80	1.5	1.3	1.9	10	12				
6	1.4	1.4	.80	1.5	1.3	1.9	15	10				
7	1.3	1.4	.80	1.5	1.4	2.0	18	10				
8	1.1	1.4	.80	1.5	1.5	2.1	19	10				
9	1.1	1.4	.80	1.5	1.4	2.4	15	10				
10	1.0	1.4	.80	1.5	1.4	2.3	12	9.6				
11	1.1	1.4	.80	1.5	1.5	2.2	13	9.3				
12	1.0	1.4	.80	1.5	1.7	2.1	16	9.6				
13	1.0	1.4	.80	1.5	1.8	2.0	20	12				
14	1.0	2.4	.80	1.5	2.0	2.0	20	17				
15	1.0	2.2	.80	1.5	2.1	2.1	22	17				
16	1.0	2.2	.80	1.5	2.1	2.1	31	14				
17	1.0	2.1	.80	1.5	2.1	2.0	27	13				
18	1.0	2.0	.80	1.5	2.1	2.1	20	13				
19	1.0	1.9	.80	1.4	2.1	2.3	17.	16				
20	1.0	1.8	.80	1.4	2.2	2.4	17	24				
21	1.3	1.7	.80	1.3	4.0	2.5	17	30				
22	1.6	1.6	.80	1.2	3.0	2.8	17	30				
23	1.4	1.4	.80	1.2	2.6	3.4	20	27				
24	1.4	1.3	.80	1.2	2.3	3.8	20	23				
25	1.4	1.1	.80	1.2	2.1	3.4	19	21				
26	1.6	.95	.80	1.2	2.1	3.3	17	26				
27	1.6	.90	.80	1.2	2.1	3.5	18	32				
28	1.4	.85	.80	1.2	2.0	3.5	18	29				
29	1.4	.82	.80	1.2	---	3.4	17	30				
30	1.4	.80	.80	1.2	---	3.4	17	32				
31	1.4	---	.80	1.2	---	3.4	---	36				
TOTAL	46.1	44.82	24.80	42.10	53.1	78.1	490.8	580.5	---	---	---	---
MEAN	1.49	1.49	.80	1.36	1.90	2.52	16.4	18.7	---	---	---	---
MAX	5.9	2.4	.80	1.5	4.0	3.8	31	36	---	---	---	---
MIN	1.0	.80	.80	.90	1.2	1.9	3.4	9.3	---	---	---	---
AC-FT	91	89	49	84	105	155	974	1150	---	---	---	---

CAL YR 1976 TOTAL 3379.06 MEAN 9.23 MAX 68 MIN .47 AC-FT 6700

10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54'15", in SW¼SE¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft (300 m) upstream from left side of dam, and 7.5 mi (12.1 km) west of Carson City.

DRAINAGE AREA.--2.30 mi^2 (5.96 km^2), revised.

PERIOD OF RECORD.--November 1973 to current year.

GAGE.--Water-stage recorder and LANDSAT data collection platform. Datum of gage is at mean sea level (spillway elevation furnished in written communication from Walter Reid, 1971).

REMARKS.--Lake is formed by earthfill dam across the outlet of a small natural lake (at one time called Goodwin Lake) on Marlette Creek, built in 1873 to provide water for fluming lumber from Spooner Summit to Carson City. The dam was built higher in 1876 and used to divert water by flume and siphon to Virginia City, until the flume was abandoned prior to 1963. The dam was raised to its present elevation in 1959. Present capacity, 11,780 acre-ft (14.5 hm^3) at spillway elevation 7,838.0 ft (2,389.02 m). Figures given herein represent total contents. Stored water is used for spawning fish for Pyramid and Walker Lakes and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 11,880 acre-ft (14.6 hm^3) June 9-23, 1977, elevation, 7,838.2 ft (2,389.08 m); minimum, 10,970 acre-ft (13.5 hm^3) Nov. 10-13, 1976, elevation, 7,835.8 ft (2,388.35 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 11,880 acre-ft (14.6 hm^3) June 9-23, elevation, 7,838.2 ft (2,389.08 m); minimum, 10,970 acre-ft (13.5 hm^3) Nov. 10-13, elevation, 7,835.8 ft (2,388.35 m).

Capacity table (elevation, in feet, and contents, in acre-ft)

7,835	10,650	7,837	11,410
7,836	11,030	7,838.3	11,910

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11010	10980	10990	11010	11180	11340	11490	11590	11830	11850	11700	11530
2	11030	10980	10990	11040	11180	11340	11490	11600	11840	11850	11700	11530
3	11030	10980	10990	11080	11180	11350	11490	11610	11840	11850	11680	11530
4	11030	10980	10990	11090	11190	11350	11490	11620	11840	11840	11680	11520
5	11030	10980	10990	11090	11190	11350	11500	11630	11840	11830	11670	11520
6	11030	10980	10990	11110	11190	11360	11500	11640	11840	11830	11660	11520
7	11030	10980	10990	11110	11190	11360	11500	11650	11850	11830	11660	11510
8	11030	10980	10990	11110	11190	11360	11500	11660	11850	11830	11660	11510
9	11030	10980	10990	11120	11200	11360	11510	11670	11860	11810	11660	11500
10	11030	10970	10990	11120	11200	11380	11510	11680	11880	11810	11650	11500
11	11020	10970	10990	11120	11200	11380	11520	11690	11880	11810	11640	11500
12	11020	10970	10990	11120	11210	11380	11520	11700	11880	11810	11640	11490
13	11010	10970	10990	11120	11210	11390	11520	11710	11880	11800	11630	11490
14	11010	10980	11000	11130	11220	11390	11530	11710	11880	11790	11630	11480
15	11010	11000	11000	11130	11220	11400	11530	11720	11880	11790	11620	11470
16	11010	11000	11000	11130	11220	11400	11540	11730	11880	11780	11620	11460
17	11010	11000	11000	11130	11220	11420	11540	11740	11880	11770	11610	11450
18	11010	11000	11000	11140	11220	11420	11540	11750	11880	11760	11610	11450
19	11010	11000	11000	11140	11220	11420	11540	11770	11880	11760	11610	11440
20	11000	11000	11000	11140	11220	11430	11540	11770	11880	11760	11600	11450
21	11000	11000	11000	11140	11260	11430	11550	11780	11880	11750	11600	11440
22	11000	11000	11000	11160	11300	11440	11550	11780	11880	11750	11590	11440
23	10990	11000	11000	11160	11310	11440	11550	11790	11880	11740	11580	11430
24	10990	11000	11000	11160	11320	11450	11560	11800	11870	11740	11570	11430
25	10990	11000	11000	11170	11320	11460	11560	11810	11870	11730	11550	11430
26	10990	11000	11000	11170	11320	11460	11560	11810	11870	11730	11550	11420
27	10980	10990	11000	11170	11330	11460	11570	11810	11870	11720	11550	11420
28	10980	10990	11000	11170	11330	11460	11570	11820	11860	11710	11550	11410
29	10980	10990	11000	11180	---	11460	11580	11830	11860	11710	11550	11410
30	10980	10990	11010	11180	---	11470	11580	11830	11860	11710	11550	11410
31	10980	---	11010	11180	---	11480	---	11830	---	11700	11540	---
MAX	11030	11000	11010	11180	11330	11480	11580	11830	11880	11850	11700	11530
MIN	10980	10970	10990	11010	11180	11340	11490	11590	11830	11700	11540	11410
†	7835.86	7835.89	7835.94	7836.39	7836.80	7837.19	7837.38	7838.11	7838.17	7837.77	7837.35	7836.99
‡	0	+10	+20	+170	+150	+150	+100	+250	+30	-160	-160	-130

CAL YR 1976 MAX 11620 MIN 10970 ‡ -610
WTR YR 1977 MAX 11880 MIN 10970 ‡ +430

† Elevation, in feet, at end of month
‡ Change in contents, in acre-feet

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in SE¼SW¼ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on left bank about 300 ft (90 m) below dam on Marlette Lake, 0.7 mi (1.1 km) upstream from Marlette Reservoir, and 7 mi (11 km) west of Carson City.

DRAINAGE AREA.--2.08 mi^2 (5.39 km^2), revised.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,760 ft (2,365 m), from topographic map.

REMARKS.--Records good. Flow regulated by Marlette Lake. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8.5 ft^3/s (0.24 m^3/s) June 8-10, 1975, gage height, 2.23 (0.679 m); no flow July 12-15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.31 ft^3/s (0.009 m^3/s), gage height, 1.50 ft (0.457 m); maximum gage height 1.92 ft (0.585 m) Mar. 9, (backwater from ice); minimum daily, 0.02 ft^3/s (0.0006 m^3/s) Jan 2-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.04	.04	.03	.04	.04	.04	.07	.16	.08	.05	.03
2	.05	.04	.04	.02	.04	.04	.04	.07	.14	.08	.05	.03
3	.05	.05	.04	.02	.04	.04	.04	.07	.13	.08	.05	.03
4	.05	.05	.04	.02	.04	.04	.04	.07	.13	.11	.05	.03
5	.05	.05	.04	.02	.04	.04	.04	.07	.11	.09	.05	.04
6	.05	.05	.05	.02	.04	.04	.04	.08	.11	.09	.05	.03
7	.05	.05	.05	.02	.04	.04	.04	.08	.10	.08	.04	.03
8	.05	.05	.04	.02	.04	.04	.04	.08	.13	.08	.03	.03
9	.05	.05	.05	.02	.04	.04	.04	.09	.17	.09	.04	.03
10	.05	.05	.05	.02	.04	.04	.03	.09	.28	.09	.04	.03
11	.05	.05	.05	.02	.04	.04	.03	.11	.30	.09	.04	.03
12	.05	.05	.05	.02	.04	.04	.03	.11	.24	.09	.04	.03
13	.05	.05	.04	.02	.04	.04	.04	.11	.19	.09	.04	.03
14	.05	.06	.04	.02	.04	.04	.05	.12	.22	.09	.04	.03
15	.05	.06	.04	.02	.04	.04	.06	.13	.17	.09	.04	.04
16	.06	.06	.04	.02	.04	.04	.07	.13	.10	.08	.04	.04
17	.06	.05	.04	.02	.04	.04	.07	.11	.14	.08	.05	.04
18	.06	.05	.04	.02	.04	.04	.07	.11	.10	.08	.04	.04
19	.06	.05	.04	.02	.04	.04	.07	.12	.09	.08	.03	.04
20	.06	.05	.04	.03	.04	.04	.08	.14	.08	.08	.03	.04
21	.05	.05	.04	.04	.04	.04	.08	.16	.08	.08	.03	.04
22	.05	.05	.04	.04	.04	.04	.08	.13	.08	.07	.03	.04
23	.04	.04	.04	.03	.04	.04	.08	.13	.08	.07	.04	.04
24	.04	.04	.04	.03	.04	.04	.08	.13	.08	.07	.04	.04
25	.04	.04	.04	.03	.04	.04	.10	.13	.07	.07	.04	.04
26	.03	.04	.04	.03	.04	.04	.11	.13	.07	.07	.04	.04
27	.03	.04	.04	.03	.04	.04	.11	.13	.07	.06	.04	.04
28	.03	.04	.05	.03	.04	.04	.11	.13	.07	.06	.04	.04
29	.04	.04	.05	.03	---	.04	.06	.13	.08	.06	.03	.05
30	.04	.04	.05	.03	---	.04	.06	.13	.08	.06	.04	.05
31	.04	---	.03	.03	---	.04	---	.13	---	.06	.04	---
TOTAL	1.48	1.43	1.32	.77	1.12	1.24	1.83	3.42	3.85	2.45	1.25	1.09
MEAN	.048	.048	.043	.025	.040	.040	.061	.11	.13	.079	.040	.036
MAX	.06	.06	.05	.04	.04	.04	.11	.16	.30	.11	.05	.05
MIN	.03	.04	.03	.02	.04	.04	.03	.07	.07	.06	.03	.03
AC-FT	2.9	2.8	2.6	1.5	2.2	2.5	3.6	6.8	7.6	4.9	2.5	2.2

CAL YR 1976 TOTAL 587.90 MEAN 1.61 MAX 6.8 MIN .02 AC-FT 1170
WTR YR 1977 TOTAL 21.25 MEAN .058 MAX .30 MIN .02 AC-FT 42

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA

LOCATION.--Lat 38°55'12", long 119°58'17", in NW¼SE¼ sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank 5 ft (1.52 m) upstream from Martin Avenue Bridge, 500 ft (152 m) upstream from Heavenly Valley Creek, and 1.8 mi (2.9 km) east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi^2 (95.05 km^2).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (1,905 m), from topographic map.

REMARKS.--Records good except those for the winter period, which are poor. Minor diversions for local water supply.

AVERAGE DISCHARGE.--17 years, 35.3 ft^3/s (1.000 m^3/s), 25,570 acre-ft/yr (31.5 hm^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft^3/s (15.2 m^3/s) Feb. 1, 1963, gage height, 11.14 ft (3.395 m), from rating curve extended above 250 ft^3/s (7.08 m^3/s) on basis of computation of peak flow (weir formula); no flow for part of Sept. 11, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft^3/s (1.42 m^3/s) May 29, gage height, 6.75 ft (2.057 m), no peak above base of 100 ft^3/s (2.83 m^3/s); maximum gage height, 7.86 ft (2.396 m) Mar. 7 (backwater from ice); minimum daily discharge, 2.8 ft^3/s (0.079 m^3/s) Sept. 11, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.1	9.8	12	9.0	10	11	16	18	8.7	3.4	3.5
2	19	8.1	9.6	8.4	9.0	10	11	16	18	11	3.7	3.6
3	14	8.1	9.6	8.4	9.0	10	12	14	17	10	3.6	3.5
4	11	8.2	9.4	8.5	9.0	10	14	12	17	9.0	3.4	3.4
5	9.0	7.9	9.4	8.6	9.0	10	17	12	18	8.6	3.5	3.1
6	8.7	7.6	9.4	8.7	8.9	11	20	12	18	8.1	3.0	3.1
7	9.2	7.5	9.3	8.8	8.9	11	22	12	17	8.3	3.1	3.1
8	9.5	7.6	9.2	8.8	8.4	12	23	13	21	8.2	3.1	3.2
9	9.5	7.9	9.1	8.8	8.5	14	20	13	27	7.5	3.1	3.3
10	9.6	8.2	8.9	8.8	8.6	10	17	11	34	7.3	3.2	3.2
11	9.5	8.4	8.5	8.8	8.9	10	17	11	25	7.6	3.3	2.8
12	9.7	8.7	8.3	8.8	9.2	11	19	12	21	7.3	3.4	2.9
13	9.7	8.7	8.1	8.8	9.4	10	22	13	19	7.2	3.4	2.8
14	9.8	12	7.9	8.8	9.6	10	21	14	18	7.2	3.3	2.9
15	9.8	11	7.8	8.9	9.8	10	22	15	18	6.9	3.1	2.9
16	9.8	11	7.8	8.9	9.8	10	26	13	17	6.6	3.2	3.3
17	9.7	10	7.6	8.9	10	10	26	15	17	6.5	3.5	4.1
18	9.0	10	7.6	9.0	9.8	10	23	14	19	6.5	4.3	4.1
19	9.0	10	7.6	9.6	10	10	20	16	17	6.5	3.9	4.7
20	9.1	9.6	7.6	11	10	11	20	22	14	7.2	3.6	5.3
21	9.1	9.4	7.6	12	15	12	20	24	14	7.4	3.4	4.7
22	9.1	9.0	7.6	12	13	14	19	24	13	7.2	3.2	4.4
23	9.5	9.4	7.7	10	11	14	18	22	12	6.9	3.0	4.2
24	9.7	9.5	7.8	9.0	10	11	19	20	11	6.8	3.1	4.1
25	9.6	9.4	8.0	9.0	10	11	18	20	11	6.7	3.6	4.1
26	9.1	8.0	8.4	9.0	10	11	18	19	10	6.6	4.3	4.1
27	8.1	7.7	8.4	9.0	10	12	16	19	10	5.6	3.9	4.2
28	8.3	7.7	8.6	9.0	10	12	16	18	9.7	4.8	3.6	4.4
29	8.2	9.7	8.9	9.0	---	11	15	19	9.6	3.3	3.5	4.4
30	8.5	10	9.4	9.0	---	11	15	17	9.3	3.3	3.2	4.0
31	7.6	---	11	9.0	---	11	---	17	---	3.3	3.3	---
TOTAL	302.4	268.4	265.9	287.3	273.8	340	557	495	499.6	218.1	106.2	111.4
MEAN	9.75	8.95	8.58	9.27	9.78	11.0	18.6	16.0	16.7	7.04	3.43	3.71
MAX	19	12	11	12	15	14	26	24	34	11	4.3	5.3
MIN	7.6	7.5	7.6	8.4	8.4	10	11	11	9.3	3.3	3.0	2.8
AC-FT	600	532	527	570	543	674	1100	982	991	433	211	221

CAL YR 1976 TOTAL 5545.1 MEAN 15.2 MAX 40 MIN 6.1 AC-FT 11000
WTR YR 1977 TOTAL 3725.1 MEAN 10.2 MAX 34 MIN 2.8 AC-FT 7390

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.---Lat 39°10'51", long 120°07'06", in NE¼NE¼ sec.5, T.15 N., R.17 E., Placer County, Hydrologic 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi (1.8 km) northeast of Tahoe City, and 1.8 mi (2.9 km) northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--503 mi^2 (1,303 km^2), at lake outlet.

PERIOD OF RECORD.--April 1900 to current year. Monthend elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe."

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft (1,895.856 m) above mean sea level, datum of Bureau of Reclamation, 6,218.86 ft (1,895.508 m), supplementary adjustment of 1959. Prior to Oct. 1, 1957, nonrecording gages at several sites near outlet of lake at same datum. Oct. 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958, to Sept. 30, 1968, water-stage recorder on pier, 1,000 ft (300 m) east of dam at lake outlet.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Monthly figures given herein represent usable contents. Usable capacity, 744,600 acre-ft (918 hm^3) between elevations 6,223 ft (1,896.8 m), natural rim of lake and 6,229.1 ft (1,898.63 m), maximum permissible elevation by Federal Court decree. Lake elevations are referred to Bureau of Reclamation datum because that datum is used as the official reference point by all local, State, and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft (1,899.288 m) July 14, 15, 17, 18, 1907; minimum, 6,221.74 ft (1,896.386 m) Dec. 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,225.62 ft (1,897.569 m) Oct. 2; minimum, 6,222.89 ft (1,896.737 m) Sept. 29.

Capacity table (elevation, in feet, and contents, in acre-feet)

6223	0	6227	486800
6224	121400	6228	609300
6225	243000	6229	732300
6226	364800		

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.60	5.18	4.86	4.48	4.34	4.36	4.11	4.01	4.10	4.10	3.75	3.32
2	5.59	5.17	4.85	4.59	4.32	4.36	4.10	4.01	4.10	4.10	3.74	3.31
3	5.58	5.16	4.84	4.58	4.31	4.34	4.09	3.99	4.11	4.08	3.72	3.30
4	5.58	5.15	4.83	4.56	4.30	4.31	4.08	3.98	4.12	4.07	3.71	3.29
5	5.56	5.15	4.80	4.55	4.30	4.30	4.08	3.98	4.12	4.04	3.67	3.28
6	5.57	5.14	4.79	4.53	4.29	4.27	4.08	3.98	4.12	4.03	3.66	3.28
7	5.55	5.13	4.78	4.52	4.28	4.26	4.06	3.99	4.13	4.04	3.65	3.27
8	5.54	5.12	4.74	4.52	4.28	4.27	4.07	4.04	4.15	4.02	3.62	3.26
9	5.53	5.10	4.75	4.52	4.28	4.30	4.05	4.05	4.18	4.00	3.63	3.26
10	5.51	5.10	4.71	4.50	4.28	4.28	4.05	4.03	4.18	4.00	3.61	3.24
11	5.52	5.08	4.70	4.49	4.28	4.28	4.05	4.03	4.18	3.99	3.61	3.24
12	5.50	5.07	4.70	4.47	4.27	4.27	4.05	4.07	4.18	3.98	3.61	3.22
13	5.48	5.03	4.69	4.46	4.26	4.26	4.05	4.07	4.18	3.98	3.60	3.21
14	5.46	5.07	4.68	4.45	4.26	4.26	4.04	4.06	4.18	3.96	3.59	3.17
15	5.45	5.05	4.67	4.44	4.25	4.24	4.05	4.05	4.18	3.95	3.58	3.11
16	5.44	5.06	4.66	4.43	4.25	4.24	4.05	4.08	4.18	3.93	3.57	3.12
17	5.43	5.05	4.65	4.43	4.24	4.21	4.04	4.09	4.18	3.92	3.56	3.08
18	5.41	5.05	4.65	4.42	4.24	4.21	4.04	4.09	4.18	3.89	3.55	3.04
19	5.40	5.03	4.63	4.42	4.23	4.21	4.03	4.10	4.19	3.88	3.53	3.07
20	5.38	5.03	4.62	4.42	4.21	4.20	4.02	4.10	4.18	3.88	3.53	3.03
21	5.37	5.02	4.61	4.42	4.37	4.18	4.02	4.10	4.18	3.87	3.52	3.03
22	5.35	5.02	4.60	4.42	4.36	4.19	4.01	4.10	4.16	3.86	3.52	2.99
23	5.34	5.00	4.58	4.41	4.38	4.19	4.01	4.10	4.17	3.85	3.48	2.98
24	5.31	4.98	4.58	4.40	4.37	4.19	4.01	4.10	4.16	3.83	3.47	2.96
25	5.28	4.97	4.57	4.40	4.38	4.19	4.00	4.10	4.15	3.81	3.40	2.94
26	5.27	4.96	4.56	4.38	4.35	4.18	4.00	4.10	4.15	3.80	3.41	2.97
27	5.25	4.90	4.55	4.38	4.36	4.16	4.00	4.10	4.14	3.79	3.38	2.93
28	5.23	4.88	4.53	4.37	4.35	4.16	3.99	4.10	4.14	3.77	3.38	2.93
29	5.22	4.88	4.52	4.37	---	4.16	3.99	4.10	4.14	3.77	3.36	2.90
30	5.20	4.87	4.53	4.36	---	4.15	4.00	4.10	4.13	3.75	3.35	2.90
31	5.18	---	4.52	4.35	---	4.13	---	4.10	---	3.75	3.34	---
MEAN	5.42	5.05	4.67	4.45	4.30	4.24	4.04	4.06	4.15	3.93	3.55	3.12
MAX	5.60	5.18	4.86	4.59	4.38	4.36	4.11	4.10	4.19	4.10	3.75	3.32
MIN	5.18	4.87	4.52	4.35	4.21	4.13	3.99	3.98	4.10	3.75	3.34	2.90
(†)	265000	227200	184600	164000	164000	137200	121400	133600	137200	91000	41300	0
(‡)	42600	-37800	-42600	-20600	0	-26800	-15800	+12200	+3600	-46200	-49700	-41300

CAL YR 1976 MAX 497800 MIN 184600 ‡ -332800
WTR YR 1977 MAX 265000 MIN 0 ‡ -307600

† Contents, in acre-feet, at end of month.
‡ Change in contents, in acre-feet.

Note: Add 6,220 ft to obtain elevation above mean sea level, Bureau of Reclamation datum, at 2400 hours.

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

LOCATION.--Lat 39°09'59", long 120°08'36", in NE¼NW¼ sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on left bank 510 ft (155 m) downstream from dam at outlet of Lake Tahoe at Tahoe City.

DRAINAGE AREA.--504 mi² (1,305 km²).

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,216.75 ft (1,894.865 m) above mean sea level. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft (113 m) upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage, Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft (0.689 m) higher and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft (0.738 m) higher; all at site 270 ft (82 m) upstream.

REMARKS.--Records excellent. Flow regulated by Lake Tahoe, operating capacity, 744,600 acre-ft (918 hm³). There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin.

AVERAGE DISCHARGE (unadjusted).--77 years (water years 1901-77), 248 ft³/s (7.023 m³/s), 179,700 acre-ft/yr (222 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,630 ft³/s (74.5 m³/s) June 19, 1969, gage height, 9.32 ft (2.841 m); no flow for parts of many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 320 ft³/s (9.06 m³/s) Oct. 14, gage height, 3.91 ft (1.192 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 28, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	247	254	250	252	250	208	172	170	202	110	20
2	11	241	254	252	250	250	212	172	170	202	108	18
3	11	223	254	258	250	250	204	167	184	198	106	19
4	10	202	252	258	248	250	200	164	198	197	103	16
5	24	212	250	237	248	248	200	160	202	197	97	15
6	123	219	248	227	248	248	200	160	204	191	91	15
7	172	219	248	225	248	248	184	154	162	191	86	14
8	170	219	248	225	250	248	167	156	125	188	81	14
9	172	217	248	239	256	250	133	172	165	179	81	13
10	176	217	250	254	256	252	94	170	204	177	78	12
11	176	217	254	252	256	250	110	169	204	174	76	11
12	204	217	266	250	256	248	146	176	204	172	72	9.4
13	243	215	262	250	256	248	177	177	204	170	71	9.4
14	281	217	260	250	254	248	176	174	204	165	69	7.7
15	317	215	260	250	254	247	176	172	202	164	65	5.8
16	317	215	258	250	254	245	176	177	204	160	61	4.6
17	317	215	256	250	254	243	179	181	206	157	60	4.0
18	309	215	254	250	254	243	179	182	206	151	58	3.3
19	296	215	254	248	252	241	176	179	206	148	57	3.0
20	287	215	254	248	248	239	177	179	206	145	55	4.3
21	262	215	254	248	268	239	174	179	206	143	53	4.3
22	221	223	254	248	262	239	174	176	206	140	49	4.0
23	204	233	252	250	254	229	172	174	206	139	45	2.8
24	202	233	252	250	256	225	172	179	206	132	37	1.7
25	217	233	252	250	254	195	170	177	206	128	34	1.2
26	237	235	250	250	254	188	170	174	204	124	31	.90
27	252	231	250	250	252	193	172	174	204	121	27	.75
28	252	229	250	250	250	191	170	176	204	117	27	.30
29	252	243	250	250	---	182	170	176	204	116	24	.45
30	250	258	250	252	---	172	170	176	204	112	24	.30
31	250	---	250	254	---	182	---	174	---	111	20	---
TOTAL	6227	6705	7848	7675	7094	7181	5188	5348	5880	4911	1956	235.20
MEAN	201	224	253	248	253	232	173	173	196	158	63.1	7.84
MAX	317	258	266	258	268	252	212	182	206	202	110	20
MIN	10	202	248	225	248	172	94	154	125	111	20	.30
AC-FT	12350	13300	15570	15220	14070	14240	10290	10610	11660	9740	3880	467

CAL YR 1976 TOTAL 109243.00 MEAN 298 MAX 613 MIN 10 AC-FT 216700
WTR YR 1977 TOTAL 66246.20 MEAN 182 MAX 317 MIN .30 AC-FT 131400

10338500 DONNER CREEK AT DONNER LAKE, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'25", long 120°14'00", in SW¼NW¼ sec.17, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, in Donner Memorial State Park on left bank 10 ft (3 m) downstream from bridge on Donner Memorial State Park road, 0.2 mi (0.3 km) downstream from outlet of Donner Lake, 0.7 mi (1.1 km) upstream from Cold Creek, and 2.5 mi (4.0 km) west of Truckee.

DRAINAGE AREA.--14.6 mi^2 (37.8 km^2).

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1953, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,930 ft (1,807 m), from topographic map. Nov. 1, 1909, to Aug. 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--Records good. Flow regulated by dam at outlet of Donner Lake, usable capacity, 9,500 acre-ft (11.7 hm^3).

AVERAGE DISCHARGE.--40 years (1929-35, 1936-37, 1939-42, 1943-52, 1955-57, 1958-77), 33.1 ft^3/s (0.937 m^3/s), 23,980 acre-ft/yr (29.6 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 700 ft^3/s (19.8 m^3/s) (estimated) Nov. 21, 1950; maximum gage height observed, 4.55 ft (1.387 m) Dec. 25, 1964; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 111 ft^3/s (3.14 m^3/s) Oct. 21, gage height, 3.01 ft (0.917 m); no flow Feb. 13 to Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	55	3.6	2.2	2.9	.00	.00	.00	.00	.00	.00	.00
2	3.1	46	3.5	3.6	2.9	.00	.00	.00	.00	.00	.00	.00
3	2.9	41	3.3	5.6	2.9	.00	.00	.00	.00	.00	.00	.00
4	3.1	35	3.3	7.4	2.9	.00	.00	.00	.00	.00	.00	.00
5	16	30	3.1	7.0	2.9	.00	.00	.00	.00	.00	.00	.00
6	41	26	3.0	6.5	2.9	.00	.00	.00	.00	.00	.00	.00
7	45	23	2.9	6.2	2.8	.00	.00	.00	.00	.00	.00	.00
8	47	20	2.9	5.9	2.9	.00	.00	.00	.00	.00	.00	.00
9	49	19	2.8	5.5	1.7	.00	.00	.00	.00	.00	.00	.00
10	48	16	2.7	5.5	.72	.00	.00	.00	.00	.00	.00	.00
11	49	15	2.7	5.2	.65	.00	.00	.00	.00	.00	.00	.00
12	49	13	2.7	5.2	.07	.00	.00	.00	.00	.00	.00	.00
13	50	11	2.6	4.9	.00	.00	.00	.00	.00	.00	.00	.00
14	49	11	2.5	4.8	.00	.00	.00	.00	.00	.00	.00	.00
15	49	11	2.4	4.6	.00	.00	.00	.00	.00	.00	.00	23
16	48	11	2.3	4.6	.00	.00	.00	.00	.00	.00	.00	33
17	47	10	2.1	4.3	.00	.00	.00	.00	.00	.00	.00	30
18	46	9.5	2.0	4.3	.00	.00	.00	.00	.00	.00	.00	30
19	46	8.9	2.0	4.2	.00	.00	.00	.00	.00	.00	.00	30
20	59	8.3	2.1	3.7	.00	.00	.00	.00	.00	.00	.00	35
21	85	7.8	2.0	3.5	.00	.00	.00	.00	.00	.00	.00	40
22	104	7.3	2.0	3.7	.00	.00	.00	.00	.00	.00	.00	40
23	97	7.0	2.3	3.6	.00	.00	.00	.00	.00	.00	.00	38
24	86	6.5	2.7	3.6	.00	.00	.00	.00	.00	.00	.00	36
25	78	6.3	2.6	3.6	.00	.00	.00	.00	.00	.00	.00	34
26	74	5.7	2.4	3.6	.00	.00	.00	.00	.00	.00	.00	34
27	72	5.2	2.4	3.5	.00	.00	.00	.00	.00	.00	.00	25
28	63	4.7	2.2	3.3	.00	.00	.00	.00	.00	.00	.00	19
29	68	4.3	2.2	3.3	---	.00	.00	.00	.00	.00	.00	19
30	73	4.0	2.1	3.3	---	.00	.00	.00	.00	.00	.00	15
31	62	---	2.2	3.0	---	.00	---	.00	---	.00	.00	---
TOTAL	1612.2	475.5	79.6	139.2	26.24	.00	.00	.00	.00	.00	.00	481.00
MEAN	52.0	15.9	2.57	4.49	.94	.000	.000	.000	.000	.000	.000	16.0
MAX	104	55	3.6	7.4	2.9	.00	.00	.00	.00	.00	.00	40
MIN	2.9	4.0	2.0	2.2	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	3200	943	158	276	52	.00	.00	.00	.00	.00	.00	954

CAL YR 1976 TOTAL 4347.33 MEAN 11.9 MAX 104 MIN .00 AC-FT 8620
WTR YR 1977 TOTAL 2813.74 MEAN 7.71 MAX 104 MIN .00 AC-FT 5580

10339250 MARTIS CREEK AT HIGHWAY 267 NEAR TRUCKEE, CA

LOCATION.--Lat 39°18'08", long 120°07'13", in SW¼SW¼ sec.20, T.17 N., R.17 E., Placer County, Hydrologic Unit 16050102, 4.0 mi (6.4 km) southwest of Truckee. Water-quality samples are collected about 150 ft (50 m) downstream from State Highway 267. Thermograph records are obtained about 300 ft (90 m) upstream from highway, off north bank immediately downstream from confluence of mainstem and Middle Martis Creek.

DRAINAGE AREA.--25.8 mi^2 (66.8 km^2).

PERIOD OF RECORD.--July 1973 to current year.
CHEMICAL ANALYSES AND SPECIFIC CONDUCTANCES: August 1973 to current year, twice-yearly.
WATER TEMPERATURES: July 1973 to November 1974, hourly; December 1974 to July 1975, monthly; August 1975 to current year, hourly.

INSTRUMENTATION.--Temperature recorder since July 1973.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 153 micromhos Sept. 6, 1977; minimum, 61 micromhos May 28, 1975.
WATER TEMPERATURES: Maximum, 27.5°C July 30, 1977; minimum, freezing point on several days during periods of cold weather.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 23 mg/L May 28, 1975; minimum, 1 mg/L Aug. 16, 1973.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 27.5°C July 30, Aug. 3; minimum, freezing point on several days during periods of cold weather.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
MAY							
12...	1030	6.6	122	8.4	7.5	4	9.3
SEP							
06...	1235	1.7	153	8.7	17.5	4	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
MAY							
12...	--	.01	.00	.00	.00	.02	.01
SEP							
06...	.01	.01	.01	.10	.13	.05	.00

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAY											
12...	1030	<10	0	330	130	<100	2	30	20	20	0
SEP											
06...	1235	<10	0	260	50	<100	160	10	0	70	80

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY			
12...	1120	6	.11
12...	1330	7	.12
SEP			
06...	1310	7	--

10339250 MARTIS CREEK AT HIGHWAY 267 NEAR TRUCKEE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	5.0	9.5	0.0	1.0	0.5	1.0	0.0	---	---	1.0	0.5
2	10.0	7.5	9.0	0.0	1.0	0.5	1.0	0.5	2.5	0.5	2.5	0.5
3	15.5	6.0	10.5	0.0	1.0	0.5	1.0	0.5	2.5	0.5	3.0	0.5
4	15.0	5.0	10.0	0.0	1.5	0.5	1.0	0.0	3.0	0.5	6.5	0.5
5	15.5	4.0	9.5	0.0	1.5	0.5	1.5	0.5	3.5	0.5	7.5	0.5
6	15.0	4.0	10.0	0.0	1.0	0.5	0.5	0.0	4.5	0.5	8.5	0.5
7	15.5	4.0	7.5	0.5	1.0	0.5	0.5	0.0	5.0	0.5	7.5	0.5
8	15.5	4.0	8.5	0.0	2.0	0.5	0.5	0.0	3.5	1.5	9.0	1.0
9	15.0	4.5	9.0	0.5	4.0	0.5	0.5	0.0	6.0	1.0	4.5	0.5
10	13.0	4.5	8.5	0.5	1.0	0.5	0.5	0.0	6.5	0.5	5.5	0.5
11	13.0	3.5	7.0	0.5	0.5	0.5	0.5	0.0	6.5	0.5	7.5	0.5
12	12.5	2.0	7.0	0.5	0.5	0.5	1.0	0.5	6.5	0.5	6.0	0.5
13	12.5	1.5	5.5	0.0	1.5	0.5	1.0	0.5	7.0	0.5	2.5	0.5
14	12.5	2.5	5.0	2.0	0.5	0.5	1.0	0.5	7.5	0.5	1.5	0.5
15	12.0	1.5	8.5	3.5	0.5	0.5	1.0	0.5	8.0	0.5	6.0	0.5
16	10.5	2.0	10.0	3.0	0.5	0.5	1.0	0.5	8.5	1.0	4.5	1.0
17	11.5	1.5	9.5	1.0	0.5	0.5	1.0	0.5	8.0	1.0	6.5	0.5
18	11.0	1.5	8.0	0.5	0.5	0.5	1.5	0.5	8.5	1.0	8.0	0.5
19	11.0	1.0	8.5	0.5	0.5	0.0	2.0	0.5	8.5	1.0	10.5	0.5
20	10.5	1.5	8.0	0.5	0.5	0.0	---	---	7.5	1.0	10.5	0.5
21	10.0	1.0	8.0	0.5	0.5	0.0	---	---	2.0	0.5	11.0	0.5
22	8.0	2.0	7.5	0.5	0.5	0.0	---	---	4.0	0.5	11.0	0.5
23	10.0	2.5	7.0	0.5	0.5	0.0	---	---	2.0	0.5	5.0	0.5
24	8.5	2.5	6.5	0.5	0.5	0.0	---	---	1.0	0.5	7.5	0.5
25	9.0	1.5	6.0	0.5	0.5	0.0	---	---	2.5	0.5	9.5	0.5
26	8.0	0.0	3.0	0.5	0.5	0.0	---	---	4.5	0.5	11.5	0.5
27	7.5	0.0	1.0	0.5	0.5	0.0	---	---	6.5	0.5	11.0	1.0
28	7.5	0.0	1.0	0.5	0.5	0.0	---	---	3.5	0.5	10.0	0.5
29	8.5	0.5	1.0	0.5	0.5	0.0	---	---	---	---	7.5	0.5
30	9.5	0.0	1.0	0.5	0.5	0.0	---	---	---	---	6.5	0.5
31	9.0	0.0	---	---	1.0	0.0	---	---	---	---	9.0	0.5
MONTH	15.5	0.0	10.5	0.0	4.0	0.0	2.0	0.0	8.5	0.5	11.5	0.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.5	1.5	17.5	5.5	21.5	8.0	20.0	15.0	25.0	10.5	23.5	6.5
2	11.0	0.5	12.5	5.5	20.5	8.0	18.5	15.0	24.0	13.0	22.5	6.5
3	13.0	0.5	10.5	3.5	22.0	7.5	18.5	14.5	27.5	11.5	23.0	6.5
4	14.5	0.5	17.5	1.5	24.0	9.0	18.0	13.5	22.5	11.5	23.0	7.0
5	15.0	1.0	15.0	2.5	21.0	10.0	17.5	12.0	20.5	8.0	22.5	7.0
6	15.0	1.0	13.0	1.0	21.0	12.0	18.0	12.0	22.0	8.5	23.5	7.0
7	15.0	1.0	13.5	2.0	21.0	12.0	19.0	13.0	24.0	9.0	23.0	7.5
8	13.0	3.0	11.5	3.0	17.0	10.5	18.5	13.0	24.5	6.5	23.0	6.5
9	14.0	2.0	10.0	3.5	13.5	11.0	18.5	13.0	25.5	7.5	22.0	7.5
10	14.5	1.0	10.5	3.5	19.0	9.5	19.5	13.0	25.5	9.0	22.5	6.5
11	15.0	1.0	11.0	4.0	21.0	9.0	19.5	13.5	25.5	9.0	22.0	7.0
12	16.5	1.5	14.5	3.5	19.0	9.0	19.0	13.5	25.5	9.5	22.0	5.5
13	13.0	3.5	16.5	5.5	19.5	10.5	19.0	13.5	26.0	10.5	19.5	6.5
14	16.0	1.5	17.0	6.5	18.0	10.0	19.0	14.0	25.5	10.0	20.5	7.5
15	17.5	1.5	14.0	3.5	21.5	10.5	19.0	14.0	25.0	7.5	19.0	6.5
16	17.5	3.0	7.5	2.0	19.5	11.5	19.5	14.0	23.0	7.0	14.5	7.5
17	17.5	3.0	11.5	1.5	17.5	13.0	19.0	15.0	16.0	11.0	15.0	6.0
18	15.5	1.5	12.0	3.0	18.5	10.5	19.0	14.5	20.5	11.5	17.5	3.5
19	16.0	1.0	18.5	4.5	16.5	12.5	18.5	13.5	24.5	10.0	13.5	7.0
20	17.0	1.5	20.0	4.5	17.0	11.5	19.0	13.5	24.0	10.5	16.5	6.5
21	14.5	2.5	19.5	5.5	21.0	12.0	19.5	14.5	26.0	10.0	17.0	3.5
22	18.0	3.5	12.0	7.0	21.0	13.0	19.5	14.5	25.0	9.0	15.5	2.5
23	17.5	3.0	12.0	6.0	22.0	13.0	19.0	13.5	23.5	8.0	16.5	2.0
24	17.0	4.0	14.0	5.0	20.5	14.5	18.5	13.5	19.0	11.0	18.0	7.5
25	17.5	4.5	14.0	4.0	21.5	14.0	18.0	13.0	15.5	10.0	19.5	4.5
26	18.0	3.0	14.5	5.5	21.5	15.0	---	---	22.0	9.0	19.0	6.5
27	17.0	4.0	18.5	4.5	22.0	14.5	---	---	22.0	6.5	19.0	6.0
28	18.5	3.5	19.5	3.5	20.0	15.5	---	---	24.0	7.0	15.0	7.5
29	17.0	4.0	21.0	5.0	18.5	14.0	---	---	24.5	8.0	16.0	8.0
30	11.0	6.0	23.0	6.0	19.5	14.5	27.5	8.5	24.0	8.0	17.5	3.5
31	---	---	23.5	7.5	---	---	27.0	9.5	22.0	7.0	---	---
MONTH	18.5	0.5	23.5	1.0	24.0	7.5	27.5	8.5	27.5	6.5	23.5	2.0
YEAR	27.5	0.0										

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'38", long 120°06'48", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, Hydrologic 16050102, Tahoe National Forest, in control house at Martis Creek Dam, 2.0 mi (3.2 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--40.0 mi² (103.6 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to May 1972 (occasional readings only), June 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers project datum).

REMARKS.--Lake is formed by rolled-earthfill dam. Storage began Oct. 7, 1971. Total capacity, 20,400 acre-ft (25.2 hm³) between elevations 5,745 ft (1,751.1 m), streambed elevation at dam, and 5,838 ft (1,779.4 m), elevation of spillway crest. Figures given herein represent total contents, which include 817 acre-ft (1.01 hm³) of inactive storage below elevation, 5,780 ft (1,761.7 m), intake crest. Reservoir is used for flood control, enhancement of fishery, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,450 acre-ft (5.49 hm³) Apr. 2, 1974, elevation, 5,805.14 ft (1,769.407 m); minimum (since storage began), 808 acre-ft (996,000 m³) Aug. 24, 1977, elevation, 5,779.88 ft (1,761.707 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 865 acre-ft (1.07 hm³) Feb. 22, elevation, 5,780.67 ft (1,761.948 m); minimum, 808 acre-ft (0.996 m³) Aug. 24 elevation, 5,779.88 ft (1,761.707 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

5779	747	5781	890
5780	817		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	832	824	825	825	827	828	830	827	822	822	811	811
2	831	824	826	835	827	828	830	826	822	821	811	811
3	827	824	825	831	827	827	832	826	822	819	811	811
4	825	824	826	829	827	827	836	825	822	817	811	810
5	824	824	826	828	827	828	840	827	822	817	810	811
6	823	824	825	827	831	829	843	827	824	817	810	810
7	823	825	825	826	836	831	845	827	824	816	810	810
8	823	826	826	826	834	837	843	830	823	814	810	810
9	822	827	826	826	832	834	839	832	830	814	810	811
10	822	827	825	826	830	830	836	829	828	814	810	811
11	822	827	826	827	831	830	836	828	825	814	810	811
12	822	827	826	827	832	831	835	832	824	813	810	811
13	822	827	826	826	830	829	832	831	822	814	809	811
14	823	833	825	826	830	828	831	829	822	813	809	810
15	822	830	825	825	830	829	832	828	825	813	809	811
16	823	829	825	826	831	828	832	831	824	812	809	812
17	823	828	824	826	830	828	830	833	824	812	809	813
18	824	827	824	826	829	828	829	834	824	812	810	813
19	824	827	824	827	829	831	827	833	826	812	811	814
20	823	827	824	826	829	833	827	831	824	812	811	814
21	823	827	824	828	856	838	827	829	823	812	810	814
22	824	827	823	828	842	843	826	828	822	812	809	814
23	824	827	824	827	831	837	826	829	820	812	809	814
24	824	827	824	827	831	834	826	828	824	812	809	814
25	824	827	824	827	829	834	825	827	824	811	809	814
26	824	824	824	827	829	834	824	828	821	812	811	814
27	824	823	824	827	829	835	824	827	820	812	811	814
28	824	824	824	827	827	835	824	826	819	811	812	814
29	824	824	824	827	---	832	824	826	822	811	811	814
30	824	825	825	827	---	830	826	824	822	811	812	814
31	824	---	825	827	---	830	---	824	---	811	812	---
MAX	832	833	826	835	856	843	845	834	830	822	812	814
MIN	822	823	823	825	827	827	824	824	819	811	809	810
†	5780.11	5780.12	5780.12	5780.15	5780.14	5780.19	5780.13	5780.10	5780.08	5779.92	5779.93	5779.97
‡	+2	+1	0	+2	0	+3	-4	-2	-2	-11	+1	+2

CAL YR 1976 MAX 876 MIN 812 ‡ -5
WTR YR 1977 MAX 856 MIN 809 ‡ -8

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	TOTAL NITRATE (N) (MG/L)
MAY							
12...	1045	129	--	10.5	--	8.2	--
12...	1046	129	--	10.5	--	8.2	--
12...	1047	132	7.1	9.5	--	8.2	--
12...	1049	128	--	10.0	--	8.1	--
12...	1100	130	--	10.0	4	8.0	.00
SEP							
06...	1115	186	8.4	11.0	7	--	.05

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
MAY						
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	.01	.04	.07	.12	.02	.01
SEP						
06...	.02	.06	.84	.97	.07	.01

DATE	TRANSPARENCY, SECCHI DISK (FEET)
MAY 12	5
SEP. 6	8

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAY											
12...	1100	<10	0	270	70	<100	2	40	10	40	10
SEP											
06...	1115	<10	0	350	30	<100	28	60	40	490	50

10339400 MARTIS CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'44", long 120°07'00", in NE¼NW¼ sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.2 mi (0.3 km) downstream from Martis Creek Lake Dam, 1.8 mi (2.9 km) upstream from mouth, and 3.5 mi (5.6 km) east of Truckee.

DRAINAGE AREA.--40.2 mi^2 (104.1 km^2), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to current year.

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,730 ft (1,747 m), from topographic map. Prior to July 10, 1972, at site 1.0 mi (1.6 km) downstream at different datum.

REMARKS.--Records excellent. Flow subject to regulation by Martis Creek Lake Dam since Oct. 7, 1971.

AVERAGE DISCHARGE (unadjusted).--19 years, 23.1 ft^3/s (0.654 m^3/s), 16,740 acre-ft/yr (20.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft^3/s (53.2 m^3/s) Feb. 1, 1963, gage height, 6.16 ft (1.878 m), site and datum then in use; minimum, 0.44 ft^3/s (0.012 m^3/s) Aug. 26, 1976, result of regulation of Martis Creek Lake Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft^3/s (1.02 m^3/s) Feb. 21, gage height, 2.54 ft (0.774 m); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Aug. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	6.7	6.5	6.5	7.6	7.8	9.8	7.4	5.9	6.5	3.1	3.2
2	11	6.7	6.7	7.3	7.5	8.3	9.6	7.4	5.5	6.1	3.1	3.2
3	7.5	6.4	6.6	11	7.4	8.7	9.6	7.0	5.4	6.0	3.1	3.3
4	6.3	6.4	6.8	9.5	7.5	8.0	11	6.7	5.5	5.3	3.1	3.2
5	6.2	6.4	6.7	8.7	7.6	7.9	14	6.6	5.4	4.7	3.0	3.2
6	5.8	6.4	6.6	7.8	8.2	8.8	16	7.2	5.8	4.5	3.2	2.9
7	5.8	6.6	6.5	7.1	10	9.2	17	7.3	6.4	4.5	3.2	3.0
8	5.8	7.0	6.6	7.1	12	11	18	7.9	6.3	4.3	3.0	3.0
9	5.8	7.4	7.0	7.1	10	14	16	9.0	7.2	4.2	3.0	3.2
10	5.8	7.5	6.7	7.1	9.5	10	14	8.8	9.4	4.1	3.1	3.1
11	5.8	7.5	6.7	7.2	9.1	9.1	12	8.4	7.9	4.1	3.0	3.1
12	5.8	7.5	6.7	7.2	9.4	10	12	8.5	6.9	4.0	3.0	3.1
13	5.8	7.0	6.9	7.1	9.3	9.9	11	9.5	6.6	3.9	3.0	3.1
14	5.8	9.7	6.7	7.1	9.1	8.2	10	8.7	6.2	4.0	2.9	3.2
15	6.1	11	6.7	6.9	9.1	8.7	9.6	7.9	6.6	3.9	2.8	3.2
16	6.1	9.3	6.6	6.9	9.2	9.1	9.7	8.2	7.5	3.8	2.6	3.3
17	6.1	8.4	6.3	6.8	9.4	8.9	9.3	9.0	7.3	3.5	2.8	3.5
18	6.1	8.1	6.2	7.1	8.9	7.8	8.4	10	7.2	3.5	3.0	3.6
19	6.2	8.0	6.2	7.4	8.8	9.0	7.8	11	8.0	3.3	3.1	3.7
20	6.2	7.7	6.0	7.5	8.8	10	7.5	10	7.7	3.3	3.1	3.9
21	6.5	7.5	5.9	7.7	23	12	7.2	8.9	7.3	3.4	2.9	4.0
22	7.0	7.5	5.8	8.1	21	15	7.0	8.4	6.5	3.4	3.0	3.9
23	7.6	7.3	5.9	8.1	14	16	6.8	8.3	6.0	3.4	3.0	3.8
24	7.4	7.1	5.9	7.9	9.3	12	6.6	8.1	6.1	3.3	3.0	3.7
25	7.1	7.1	5.9	7.7	9.4	11	6.4	7.8	7.8	3.3	2.9	3.7
26	6.8	6.8	6.1	7.8	8.9	11	6.2	7.6	6.7	3.3	3.1	3.7
27	6.6	5.7	6.1	7.7	8.9	12	6.0	8.1	6.0	3.3	3.3	3.8
28	6.6	5.7	6.1	7.5	9.2	12	6.0	7.1	5.5	3.3	3.3	3.9
29	6.6	6.1	6.1	7.3	---	10	5.9	6.8	5.8	3.2	3.3	3.8
30	6.7	6.3	6.2	7.3	---	9.7	6.3	6.6	6.7	3.2	3.4	3.8
31	6.7	---	6.7	7.8	---	9.2	---	6.1	---	3.1	3.4	---
TOTAL	202.3	218.8	198.4	235.3	282.1	314.3	296.7	250.3	199.1	123.7	94.8	103.1
MEAN	6.53	7.29	6.40	7.59	10.1	10.1	9.89	8.07	6.64	3.99	3.06	3.44
MAX	11	11	7.0	11	23	16	18	11	9.4	6.5	3.4	4.0
MIN	5.8	5.7	5.8	6.5	7.4	7.8	5.9	6.1	5.4	3.1	2.6	2.9
AC-FT	401	434	394	467	560	623	589	496	395	245	188	204

CAL YR 1976 TOTAL 3464.1 MEAN 9.46 MAX 37 MIN 4.0 AC-FT 6870
WTR YR 1977 TOTAL 2518.9 MEAN 6.90 MAX 23 MIN 2.6 AC-FT 5000

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to current year.
CHEMICAL ANALYSES, SPECIFIC CONDJCTANCES, AND SEDIMENT DATA: August 1973 to current year, twice-yearly.
WATER TEMPERATURES: March 1960 to June 1973, monthly; July 1973 to current year, hourly.

INSTRUMENTATION.--Temperature recorder since July 1973.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 200 micromhos Sept. 6, 1977; minimum, 68 micromhos May 28, 1975.
WATER TEMPERATURES: Maximum, 29.0°C July 31, 1972; minimum, freezing point Jan. 3, 1963, Dec. 20, 1965.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 9 mg/L May 28, 1975; minimum, 0 mg/L Aug. 16, 1973.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 24.0°C June 27, July 16, 20, 21, 30; minimum, 2.0°C November 28-30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
MAY							
12...	1300	9.0	130	8.4	11.0	3	9.1
SEP							
06...	1015	3.1	200	8.6	16.5	3	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
MAY							
12...	.00	.01	.03	.13	.17	.03	.01
SEP							
06...	.03	.02	.05	.38	.48	.03	.01

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAY											
12...	1300	<10	0	310	50	<100	2	50	30	20	0
SEP											
06...	1015	<10	0	310	70	<100	26	80	110	10	10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY				
12...	1300	8.2	7	.15
SEP				
06...	1030	3.2	13	.11

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.5	12.0	9.5	6.0	5.5	2.5	4.5	2.5	5.5	3.0	5.5	2.5
2	14.5	13.0	9.5	6.0	5.5	2.5	4.5	2.5	5.5	2.5	6.0	2.5
3	15.5	12.5	9.5	6.0	5.5	2.5	5.0	3.5	6.0	2.5	5.0	3.0
4	15.5	11.5	9.5	6.0	5.5	3.0	---	---	5.5	2.5	6.5	2.5
5	15.5	11.5	9.0	5.5	5.5	3.0	---	---	5.5	2.5	6.5	2.5
6	15.5	11.0	9.0	6.0	5.5	2.5	---	---	6.0	3.0	6.5	3.0
7	15.5	11.5	8.5	6.0	6.0	3.0	---	---	6.0	2.5	6.5	3.0
8	16.0	11.5	9.0	5.5	5.5	3.0	---	---	4.5	3.5	6.5	3.0
9	16.0	11.5	8.5	6.0	5.0	3.0	---	---	6.0	3.0	5.0	3.0
10	15.0	11.5	8.5	6.0	5.0	2.5	---	---	6.0	3.0	6.5	3.0
11	15.5	11.5	8.0	6.0	5.0	2.5	---	---	6.5	3.5	7.0	3.0
12	15.0	10.5	8.0	5.5	5.5	2.5	---	---	6.5	3.5	6.0	3.0
13	15.0	10.0	7.5	5.0	5.0	2.5	---	---	7.0	3.5	5.5	3.0
14	15.0	10.0	6.5	5.5	5.0	2.5	---	---	7.0	3.5	6.5	2.5
15	14.5	10.0	7.0	5.5	5.5	2.5	---	---	7.0	3.5	6.5	2.5
16	13.5	10.0	7.5	5.5	5.5	2.5	---	---	7.0	3.5	5.0	3.5
17	13.5	9.0	7.5	5.0	5.5	2.5	---	---	7.0	3.5	6.0	3.0
18	13.0	9.5	7.0	5.0	5.5	2.5	---	---	7.0	4.0	7.0	2.5
19	12.5	9.0	7.5	5.0	5.5	2.5	---	---	7.5	4.0	7.0	3.0
20	13.0	8.5	7.5	5.0	5.5	2.5	---	---	7.0	3.5	7.0	3.5
21	12.5	8.5	7.0	5.0	5.5	2.5	4.5	3.5	5.0	3.5	7.5	3.0
22	11.5	8.5	7.0	4.5	5.5	2.5	5.0	3.0	5.5	3.5	7.5	3.5
23	12.0	9.0	7.0	4.5	5.5	2.5	5.0	3.5	5.0	3.0	5.5	3.0
24	10.5	8.5	7.0	4.5	5.5	2.5	5.0	2.5	6.0	2.5	6.0	3.5
25	11.0	8.0	7.0	4.0	6.0	3.0	4.5	2.5	6.5	3.0	7.0	3.0
26	10.5	7.0	6.0	3.5	6.0	2.5	5.5	3.0	6.5	2.5	7.5	3.5
27	10.0	6.5	5.0	2.5	5.5	2.5	5.5	2.5	6.5	3.0	7.5	3.5
28	10.0	6.5	5.0	2.0	5.5	2.5	5.5	2.5	6.0	3.0	7.0	3.5
29	9.5	6.5	5.0	2.0	5.5	2.5	5.5	2.5	---	---	6.5	3.5
30	9.5	6.0	5.5	2.0	5.0	3.0	5.5	2.5	---	---	7.0	3.5
31	9.0	6.0	---	---	5.5	3.0	5.5	2.5	---	---	8.0	3.5
MONTH	16.5	6.0	9.5	2.0	6.0	2.5	5.5	2.5	7.5	2.5	8.0	2.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	4.0	15.0	11.5	18.0	11.5	23.5	18.5	23.0	15.5	21.0	14.0
2	7.5	3.5	14.0	11.5	18.5	12.5	22.5	18.5	22.5	16.5	21.0	13.5
3	8.0	3.0	13.0	10.5	19.5	13.0	23.0	18.5	23.5	16.0	21.0	14.0
4	9.5	4.5	15.0	10.0	20.0	13.0	22.5	17.0	21.5	16.5	21.0	14.5
5	10.5	5.0	14.0	9.5	20.0	14.0	22.5	15.5	21.0	15.5	21.0	13.5
6	9.5	6.0	13.0	10.0	19.5	15.0	23.0	15.5	21.5	15.5	22.0	14.0
7	10.5	6.0	13.0	9.5	20.0	15.5	23.0	15.5	22.5	15.5	21.0	14.0
8	9.5	6.5	13.0	9.5	19.0	15.5	23.0	15.0	22.5	14.5	21.0	14.0
9	9.5	6.5	11.0	9.0	16.5	16.0	23.0	15.0	22.5	14.5	21.0	14.0
10	10.0	6.5	11.0	9.0	20.0	15.5	23.5	15.0	23.0	15.0	21.0	14.0
11	10.0	6.0	11.0	9.0	20.0	15.5	23.0	15.5	22.5	15.0	21.0	14.5
12	11.5	6.5	11.5	8.5	20.0	15.0	23.0	16.0	23.5	15.5	20.5	13.5
13	11.0	7.5	12.0	9.0	21.0	15.5	23.5	15.5	23.5	16.0	20.0	14.0
14	11.5	8.0	12.5	9.5	21.0	15.0	23.5	15.5	23.0	16.0	19.0	14.0
15	12.5	8.0	13.5	9.0	21.0	15.5	23.5	16.0	22.5	15.0	19.0	14.0
16	13.5	9.0	11.0	8.5	21.5	16.0	24.0	16.5	21.5	15.0	16.0	13.0
17	13.5	9.0	11.5	9.0	19.5	16.0	23.0	16.5	18.5	16.0	17.0	13.0
18	13.0	9.0	12.0	9.0	21.0	15.5	23.0	16.0	21.0	16.5	17.5	12.0
19	13.5	8.0	13.0	9.0	20.5	16.5	23.5	16.0	21.5	15.5	15.0	12.0
20	14.0	9.0	14.0	9.5	19.5	16.0	24.0	16.0	22.0	16.0	16.5	12.0
21	13.5	9.5	14.0	9.5	21.5	16.0	24.0	15.5	22.5	15.5	16.5	11.0
22	15.0	10.0	12.5	10.0	22.5	16.0	23.5	16.0	22.5	15.5	16.0	10.5
23	15.0	10.0	12.0	10.5	23.0	16.0	23.5	15.5	22.5	15.0	16.0	10.0
24	15.0	10.5	14.0	10.0	23.0	16.5	23.0	16.0	19.5	15.5	16.0	11.5
25	15.5	10.5	13.5	9.5	23.0	17.5	23.5	15.5	18.0	15.0	16.5	11.0
26	15.5	10.5	13.0	10.0	23.5	17.0	23.5	15.0	21.5	14.5	16.5	11.0
27	15.5	10.0	15.0	10.0	24.0	17.0	23.5	15.5	20.5	14.0	16.0	11.0
28	16.0	10.0	15.5	9.5	23.5	17.0	23.0	14.5	21.0	14.0	15.0	11.5
29	15.5	11.0	15.5	10.0	23.5	17.0	23.5	15.0	21.0	14.0	14.5	11.5
30	13.5	11.5	17.0	10.5	22.5	18.5	24.0	15.0	21.0	14.0	16.0	10.5
31	---	---	17.5	11.5	---	---	23.0	16.0	20.5	13.5	---	---
MONTH	16.0	3.0	17.5	8.5	24.0	11.5	24.0	14.5	23.5	13.5	22.0	10.0
YEAR	24.0	2.0										

10340300 PROSSER CREEK RESERVOIR NEAR BOCA, CA

LOCATION.--Lat 39°22'45", long 120°08'25", in NW¼SW¼ sec.30, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Prosser Creek Dam on Prosser Creek, 1.5 mi (2.4 km) upstream from mouth, and 3 mi (5 km) west of Boca.

DRAINAGE AREA.--50.5 mi^2 (130.8 km^2).

PERIOD OF RECORD.--January 1963 to current year.

GAGE.--Water-stage recorder with surface follower and telemark. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 30, 1963. Usable capacity, 28,640 acre-ft (35.3 hm^3) between elevations, 5,660.6 ft (1,725.35 m), top of inactive storage, and 5,741.2 ft (1,749.92 m), spillway crest. Inactive storage, 1,200 acre-ft (1.48 hm^3), includes 83 acre-ft (102,000 m^3) dead storage, below elevation 5,660.6 ft (1,725.35 m). Elevation of streambed at dam axis, 5,622 ft (1,713.6 m). Figures given herein represent usable contents. Reservoir is used for flood control, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 31,070 acre-ft (38.3 hm^3) June 1, 1973, elevation 5,744.33 ft (1,750.872 m); no usable contents Aug. 18, 1976 to Apr. 18, 1977, July 8 to Sept. 30, 1977; minimum elevation observed, 5,637.0 ft (1,718.16 m) July 20 to Sept. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 5,150 acre-ft (6.35 hm^3) June 13, elevation 5,691.8 ft (1,734.86 m); no usable contents Oct. 1 to Apr. 18, July 8 to Sept. 30; minimum elevation observed, 6,637.0 ft (1,718.16 m) July 20 to Sept. 30.

REVISED RECORDS.--WRD 1976: 1975.

MONTHEND ELEVATION AND CONTENTS AT 0800, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in Contents (acre-ft)
Sept.30	5,641.3	0	—
Oct. 31	5,637.1	0	0
Nov. 30	5,637.1	0	0
Dec. 31	5,637.1	0	0
CAL YR 1976	—	—	-8,010
Jan. 31	5,637.1	0	0
Feb. 28	5,637.1	0	0
Mar. 31	5,637.1	0	0
Apr. 30	5,674.8	1,720	+1,720
May 31	5,683.9	3,340	+1,620
June 30	5,677.9	2,220	-1,120
July 31	5,637.0	0	-2,220
Aug. 31	5,637.0	0	0
Sept.30	5,637.0	0	0
WTR YR 1977	—	—	0

10340500 PROSSER CREEK BELOW PROSSER CREEK DAM NEAR TRUCKEE, CA
(Formerly published as Prosser Creek near Boca)

LOCATION.--Lat 39°22'24", long 120°07'50", in NW¼SW¼NE¼ sec.31, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1.0 mi (1.6 km) upstream from mouth, 0.2 mi (0.3 km) downstream from Prosser Creek Dam, and 2.6 mi (4.2 km) southwest of Boca.

DRAINAGE AREA.--53.2 mi² (137.8 km²).

PERIOD OF RECORD.--October 1902 to June 1903 (gage heights only), October 1942 to December 1950, June 1951 to current year. Monthly discharge only for October 1942 to December 1950, published in WSP 1734. Records for April 1889 to November 1890, published in the 11th and 12th Annual Reports, Pt. 2, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 2127: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 5,602.31 ft (1,707.584 m) above mean sea level (Bureau of Reclamation datum). April 1889 to November 1890 and October 1902 to June 1903, nonrecording gages at site 0.8 mi (1.3 km) downstream. October 1942 to December 1950, water-stage recorder at site 0.8 mi (1.3 km) downstream at different datum. June 1951 to September 1956, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 27.69 ft (8.440 m) loser. October 1956 to May 1976, water stage recorder at site 0.8 mi (1.3 km) downstream at datum 29.69 ft (9.050 m) lower.

REMARKS.--Records fair except those for winter months, which are poor. Flow regulated by Prosser Creek dam since Jan. 31, 1963.

AVERAGE DISCHARGE.--34 years (1942-50, 1951-77), 85.2 ft³/s (2.413 m³/s), 61,730 acre-ft/yr (76.1 hm³/yr). Adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,560 ft³/s (129 m³/s) Dec. 23, 1955, gage height, 10.13 ft (3.088 m), present datum from rating curve extended above 910 ft³/s (25.8 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft (3.35 m), from floodmarks (present datum), Nov. 20, 1950, discharge, 4,320 ft³/s (122 m³/s), by slope-area measurement; minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Jan. 2, 1975, result of temporary closing of Prosser Creek Dam, for spillway maintenance by Bureau of Reclamation in Cooperation with California Department of Fish and Game.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 161 ft³/s (4.56 m³/s) July 6, gage height, 3.72 ft (1.134 m); minimum daily, 0.30 ft³/s (0.008 m³/s) April 13 to May 3, May 28 to June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	14	20	19	17	23	28	.30	.30	145	5.0	4.1
2	.40	14	21	18	17	22	26	.30	.30	140	5.0	4.1
3	.40	14	22	19	18	21	27	.30	3.4	135	4.8	4.1
4	.40	14	23	17	18	21	32	16	5.9	145	4.8	4.1
5	.40	14	21	16	19	21	51	28	5.9	147	4.6	3.9
6	.40	13	21	16	20	22	68	15	5.9	151	4.6	3.9
7	.40	13	22	15	24	21	73	8.4	5.9	151	4.8	3.9
8	.40	13	21	13	25	28	78	8.0	22	92	4.6	3.9
9	.40	13	20	14	19	28	80	8.0	33	53	4.6	4.1
10	.40	12	18	14	17	24	78	8.0	17	51	4.8	4.3
11	.40	12	19	15	19	24	77	26	7.4	50	4.8	4.3
12	.40	12	20	15	21	25	27	39	7.4	48	4.6	4.3
13	.40	12	20	15	21	23	.30	39	58	46	4.6	4.3
14	17	22	21	13	21	24	.30	39	93	43	4.1	4.6
15	38	23	21	13	24	25	.30	38	93	37	4.1	4.6
16	33	19	20	13	27	23	.30	38	92	9.0	4.1	4.8
17	40	17	20	14	29	21	.30	39	72	6.5	4.3	5.3
18	46	17	19	14	29	22	.30	39	55	6.2	4.3	6.2
19	48	16	19	14	27	24	.30	39	56	5.6	4.6	5.9
20	46	16	19	14	26	28	.30	39	88	5.3	4.3	6.2
21	44	16	18	15	28	34	.30	40	116	5.3	4.1	5.9
22	43	15	19	15	30	42	.30	40	116	5.3	3.9	5.6
23	39	15	20	15	28	41	.30	40	116	5.3	3.7	5.3
24	36	15	20	16	28	32	.30	40	127	5.0	3.9	5.3
25	17	15	19	17	28	34	.30	72	137	5.0	4.1	5.3
26	13	14	20	17	27	33	.30	82	135	5.0	4.8	5.6
27	13	14	21	16	26	36	.30	24	143	5.0	5.3	5.6
28	14	20	21	16	24	33	.30	.30	152	5.0	5.0	6.2
29	14	17	20	16	---	30	.30	.30	151	5.0	4.6	6.5
30	14	17	20	16	---	28	.30	.30	147	4.8	4.3	7.4
31	14	---	20	17	---	27	---	.30	---	4.8	4.3	---
TOTAL	534.20	458	625	477	657	840	650.40	806.50	2061.40	1522.1	139.4	149.6
MEAN	17.2	15.3	20.2	15.4	23.5	27.1	21.7	26.0	68.7	49.1	4.50	4.99
MAX	48	23	23	19	30	42	80	82	152	151	5.3	7.4
MIN	.40	12	18	13	17	21	.30	.30	.30	4.8	3.7	3.9
AC-FT	1060	908	1240	946	1300	1670	1290	1600	4090	3020	276	297

CAL YR 1976 TOTAL 16394.80 MEAN 44.8 MAX 200 MIN .40 AC-FT 32520 ‡ MEAN 33.9 AC-FT ‡ 24510
WTR YR 1977 TOTAL 8920.60 MEAN 24.4 MAX 152 MIN .30 AC-FT 17690 ‡ MEAN 24.4 AC-FT ‡ 17690

‡ ADJUSTED FOR STORAGE.

10343000 INDEPENDENCE CREEK NEAR TRUCKEE, CA

LOCATION (REVISED).--Lat 39°27'20", long 120°17'13", in SW¼NW¼ sec.35, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 0.3 mi (0.5 km) downstream from Independence Lake outlet, and 10.5 mi (16.9 km) northwest of Truckee.

DRAINAGE AREA.--8.20 mi² (21.24 km²), revised.

PERIOD OF RECORD.--November 1902 to September 1907, November 1909 to June 1910, August 1968 to current year.

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,115 m), from topographic map. July 1, 1904, to June 30, 1910, water-stage recorder 75 ft (25 m) downstream from Independence Lake outlet; prior to July 1, 1904, water-stage recorder 600 ft (180 m) downstream at approximately same datum.

REMARKS.--Records excellent except those for Sept. 9-30, which are fair. Flow regulated by Independence Lake, usable capacity, 17,500 acre-ft (21.6 hm³).

AVERAGE DISCHARGE (unadjusted).--14years (water years 1903-7, 1969-77), 28.9 ft³/s (0.818 m³/s), 20,940 acre-ft/yr (25.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 286 ft³/s (8.10 m³/s) June 23, 1907, gage height, 3.9 ft (1.19 m) site and datum then in use; no flow Sept. 28 to Nov. 10, 1905, June 1, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 141 ft³/s (3.99 m³/s) Aug. 15, gage height, 4.58 ft (1.396 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.3	1.5	1.5	1.6	1.6	1.4	1.3	1.6	2.2	1.4	112
2	1.4	1.3	1.5	1.5	1.6	1.6	1.4	1.3	1.6	2.2	1.4	111
3	1.4	1.4	1.5	1.4	1.6	1.6	1.4	1.3	1.6	2.1	1.3	86
4	1.4	1.3	1.5	1.4	1.6	1.6	1.4	1.3	1.7	2.1	1.3	11
5	1.4	1.3	1.5	1.4	1.6	1.5	1.4	1.3	1.7	2.0	1.3	9.9
6	1.4	1.5	1.5	1.4	1.6	1.4	1.4	1.3	1.7	2.1	1.3	9.3
7	1.4	1.5	1.5	1.4	1.6	1.4	1.5	1.3	1.7	2.1	1.5	9.1
8	1.3	1.5	1.4	1.4	1.6	1.4	1.4	1.4	1.7	2.1	1.1	9.0
9	1.3	1.5	1.5	1.5	1.6	1.5	1.4	1.5	1.9	2.0	1.3	9.0
10	1.3	1.5	1.5	1.6	1.6	1.5	1.4	1.4	1.9	1.9	1.5	9.0
11	1.3	1.5	1.5	1.5	1.6	1.4	1.4	1.4	2.0	1.9	1.5	8.9
12	1.3	1.5	1.5	1.4	1.6	1.4	1.5	1.5	2.0	1.9	1.6	8.9
13	1.3	1.5	1.5	1.3	1.6	1.5	1.9	1.5	2.1	1.9	1.5	8.9
14	1.3	1.5	1.5	1.3	1.6	1.4	1.9	1.5	2.2	1.9	1.4	8.8
15	1.3	1.5	1.4	1.3	1.6	1.4	1.9	1.5	2.2	1.8	76	8.8
16	1.3	1.4	1.3	1.4	1.6	1.5	1.9	1.6	2.3	1.8	137	8.8
17	1.3	1.3	1.3	1.4	1.6	1.5	1.8	1.6	2.3	1.7	136	8.7
18	1.3	1.3	1.3	1.4	1.5	1.4	1.7	1.6	2.4	1.7	134	8.7
19	1.3	1.3	1.3	1.4	1.5	1.4	1.6	1.6	2.5	1.7	133	8.7
20	1.3	1.3	1.3	1.5	1.5	1.4	1.5	1.6	2.5	1.7	133	8.6
21	1.3	1.3	1.3	1.5	1.6	1.4	1.5	1.6	2.5	1.6	131	8.6
22	1.2	1.3	1.3	1.5	1.6	1.4	1.5	1.6	2.4	1.6	130	8.5
23	1.2	1.3	1.3	1.5	1.5	1.4	1.4	1.7	2.4	1.6	128	8.5
24	1.2	1.4	1.3	1.6	1.5	1.4	1.4	1.7	2.3	1.6	126	8.5
25	1.3	1.5	1.3	1.6	1.6	1.5	1.4	1.7	2.3	1.5	124	8.4
26	1.3	1.5	1.3	1.6	1.6	1.4	1.4	1.7	2.3	1.5	122	8.4
27	1.4	1.5	1.3	1.6	1.6	1.4	1.3	1.6	2.2	1.4	121	8.3
28	1.3	1.5	1.3	1.6	1.6	1.4	1.3	1.6	2.2	1.5	119	8.3
29	1.3	1.5	1.3	1.6	---	1.4	1.3	1.6	2.2	1.5	117	8.3
30	1.3	1.5	1.3	1.6	---	1.4	1.3	1.7	2.2	1.4	115	8.2
31	1.3	---	1.3	1.6	---	1.3	---	1.6	---	1.3	114	---
TOTAL	41.0	42.5	43.1	45.7	44.3	44.8	45.0	46.9	62.6	55.3	2115.4	547.1
MEAN	1.32	1.42	1.39	1.47	1.58	1.45	1.50	1.51	2.09	1.78	68.2	18.2
MAX	1.6	1.5	1.5	1.6	1.6	1.6	1.9	1.7	2.5	2.2	137	112
MIN	1.2	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.6	1.3	1.1	8.2
AC-FT	81	84	85	91	88	89	89	93	124	110	4200	1090

CAL YR 1976 TOTAL 2129.5 MEAN 5.82 MAX 12 MIN 1.2 AC-FT 4220
WTR YR 1977 TOTAL 3133.7 MEAN 8.59 MAX 137 MIN 1.1 AC-FT 6220

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°25'54", long 120°14'07", in NE¼NE¼ sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank 2.2 mi (3.5 km) upstream from bridge on State Highway 89, and 7.5 mi (12.1 km) north of Truckee.

DRAINAGE AREA.--10.8 mi² (28.0 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft (30 m) upstream at different datum.

REMARKS.--Records excellent. No storage or diversion above station.

AVERAGE DISCHARGE.--24 years, 12.1 ft³/s (0.343 m³/s), 8,770 acre-ft/yr (10.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s (21.7 m³/s) Feb. 1, 1963, gage height, 4.64 ft (1.414 m) from floodmarks, from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of slope-area measurement at gage height 4.28 ft (1.305 m); minimum, 0.6 ft³/s (0.017 m³/s) Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft³/s (0.48 m³/s) Apr. 7, gage height, 2.11 ft (0.643 m), no peak above base of 50 ft³/s (1.42 m³/s); minimum daily, 1.3 ft³/s (0.037 m³/s) many days in July and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.3	2.1	2.0	2.3	2.9	3.0	5.1	2.8	1.6	1.3	1.4
2	3.3	2.3	2.1	2.1	2.3	2.8	3.1	4.6	2.7	2.0	1.4	1.4
3	2.3	2.2	2.2	2.1	2.3	2.7	3.4	4.2	2.5	1.9	1.3	1.4
4	2.1	2.2	2.2	2.1	2.2	2.7	4.9	3.9	2.4	1.7	1.3	1.4
5	2.1	2.2	2.1	2.1	2.3	2.7	7.2	3.8	2.4	1.5	1.3	1.4
6	2.0	2.2	2.1	2.1	2.3	2.8	8.6	3.9	2.7	1.5	1.3	1.4
7	2.0	2.2	2.1	2.1	2.5	2.8	10	3.6	2.7	1.5	1.3	1.4
8	2.0	2.2	2.1	2.1	2.5	3.0	10	4.2	2.4	1.5	1.3	1.4
9	2.0	2.2	2.2	2.1	2.5	3.1	7.6	4.6	2.8	1.4	1.3	1.4
10	2.0	2.3	2.1	2.2	2.4	2.8	7.2	4.2	3.1	1.4	1.3	1.4
11	2.0	2.3	2.1	2.2	2.5	2.8	7.7	4.0	2.5	1.4	1.3	1.4
12	2.0	2.4	2.1	2.3	2.6	2.8	8.5	4.1	2.2	1.4	1.3	1.4
13	1.9	2.3	2.1	2.3	2.6	2.9	8.3	4.0	2.1	1.4	1.3	1.4
14	2.0	3.5	2.1	2.3	2.7	2.9	8.2	4.0	2.1	1.4	1.3	1.4
15	2.1	3.6	2.1	2.2	2.8	2.7	8.5	3.8	2.0	1.4	1.3	1.5
16	2.1	3.1	2.0	2.3	3.0	2.7	9.5	4.0	2.0	1.4	1.3	1.6
17	2.1	2.9	2.0	2.3	3.0	2.7	8.4	4.8	2.3	1.4	1.4	1.8
18	2.1	2.7	2.0	2.3	3.0	2.7	6.9	4.8	2.1	1.3	1.4	1.6
19	2.1	2.6	1.9	2.4	3.1	2.8	6.1	4.5	2.0	1.3	1.4	1.7
20	2.1	2.5	1.9	2.4	3.0	2.9	6.0	4.2	2.0	1.3	1.3	1.7
21	2.2	2.5	1.9	2.4	5.3	3.3	5.9	3.9	1.9	1.4	1.3	1.6
22	2.4	2.5	1.9	2.5	4.0	4.1	6.3	3.9	1.8	1.4	1.3	1.6
23	2.5	2.4	2.0	2.5	3.4	3.9	6.3	4.3	1.7	1.3	1.3	1.6
24	2.4	2.4	1.9	2.5	3.1	3.4	6.0	3.8	1.7	1.3	1.3	1.6
25	2.3	2.4	1.9	2.5	3.0	3.2	5.7	3.5	1.7	1.3	1.4	1.6
26	2.2	2.3	1.9	2.5	2.9	3.3	5.2	4.2	1.6	1.3	1.7	1.7
27	2.3	2.0	1.9	2.4	2.9	3.5	5.0	4.0	1.6	1.3	1.5	1.7
28	2.3	2.1	1.9	2.4	2.9	3.4	4.6	3.4	1.6	1.3	1.4	1.8
29	2.3	2.1	1.9	2.4	---	3.1	4.3	3.2	1.8	1.3	1.4	1.8
30	2.3	2.1	2.0	2.4	---	3.0	4.7	3.1	1.8	1.3	1.4	1.8
31	2.3	---	2.0	2.3	---	2.9	---	2.9	---	1.3	1.4	---
TOTAL	68.6	73.0	62.8	70.8	79.4	93.3	197.1	124.5	65.0	44.2	41.8	46.3
MEAN	2.21	2.43	2.03	2.28	2.84	3.01	6.57	4.02	2.17	1.43	1.35	1.54
MAX	3.3	3.6	2.2	2.5	5.3	4.1	10	5.1	3.1	2.0	1.7	1.8
MIN	1.9	2.0	1.9	2.0	2.2	2.7	3.0	2.9	1.6	1.3	1.3	1.4
AC-FT	136	145	125	140	157	185	391	247	129	88	83	92

CAL YR 1976 TOTAL 1533.6 MEAN 4.19 MAX 19 MIN 1.7 AC-FT 3040
WTR YR 1977 TOTAL 966.8 MEAN 2.65 MAX 10 MIN 1.3 AC-FT 1920

10344300 STAMPEDE RESERVOIR NEAR BOCA, CA

LOCATION.--Lat 39°28'24", long 120°06'06", in SW¼NW¼NW¼ sec.28, T.19 N., R.17 E., Sierra County, Hydrologic Unit 16050102, in Tahoe National Forest, in control house on Stampede Dam on Little Truckee River, just downstream from mouth of Davies Creek and 6.2 mi north of Boca.

DRAINAGE AREA.--136 mi^2 (352 km^2).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder with mercury-column manometer. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 1, 1969. Total capacity, 226,500 acre-ft (279 hm^3) at elevation 5,948.7 ft (1,813.16 m), spillway crest. Inactive storage, 5,010 acre-ft (6.18 hm^3), includes 660 acre-ft (814,000 m^3) dead storage, below elevation 5,798.3 ft (1,767.32 m). Elevation of streambed at dam axis, 5,737.0 ft (1,748.64 m). Figures given herein represent total contents. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation.

COOPERATION.--Records furnished by the Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 226,500 acre-ft (279 hm^3) June 19, 21, 1974, elevation, 5,948.7 ft (1,813.16 m); minimum (since July, 1971), 58,440 acre-ft (72.1 hm^3) Sept. 30, 1976, elevation, 5,878.8 ft (1,791.86 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 58,130 acre-ft (71.7 hm^3) Oct. 1, elevation, 5,878.6 ft (1,791.80 m); minimum, 31,390 acre-ft (38.7 hm^3) Sept. 17-30, elevation, 5854.3 ft (1,784.4 m).

MONTHEND ELEVATIONS AND TOTAL CONTENTS AT 0800, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sep. 30	5,878.8	58,440	--
Oct. 31	5,873.2	51,030	-7,410
Nov. 30	5,870.9	48,210	-2,820
Dec. 31	5,868.4	45,290	-2,920
CAL YR 1976.	--	--	-101,710
Jan. 31	5,865.9	42,460	-2,830
Feb. 28	5,863.3	39,720	-2,740
Mar. 31	5,861.5	37,930	-1,790
Apr. 30	5,859.5	36,020	-1,910
May 31	5,857.4	34,040	-1,980
June 30	5,856.4	33,200	-840
July 31	5,854.6	31,570	-1,630
Aug. 31	5,855.1	32,050	+480
Sep. 30	5,854.3	31,390	-660
WTR YR 1976-77	--	--	-27,050

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA

(Formerly published as Little Truckee River above Boca Reservoir, near Boca)

LOCATION.--Lat 39°26'10", long 120°05'00", in SW¼SW¼ sec.3, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 1 mi (2 km) upstream from Boca Reservoir, 1.5 mi (2.4 km) upstream from Dry Creek, 3.0 mi (4.8 km) downstream from Stampede Dam on Little Truckee River, and 3.5 mi (5.6 km) north of Boca.

DRAINAGE AREA.--146 mi^2 (378 km^2).

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Published as "at Pine Station" June 1903 to December 1907 and as "at Starr" January 1908 to October 1910.

REVISED RECORDS.--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used 1903-7.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft (1,712.571 m) above mean sea level (Bureau of Reclamation bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records excellent. Flow regulated by Independence Lake, capacity, about 17,500 acre-ft (21.6 hm^3), one transmountain diversion to Sierra Valley, and Stampede Reservoir, capacity, 226,500 acre-ft (279 hm^3).

AVERAGE DISCHARGE.--45 years (1903-10, 1939-77), 189 ft^3/s (5.352 m^3/s), 136,930 acre-ft/yr (169 hm^3/yr), adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft^3/s (377 m^3/s) Feb. 1, 1963, gage height, 9.00 ft (2.743 m), from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of slope area measurement of peak flow; minimum daily, 0.30 ft^3/s (0.008 m^3/s) Sept. 16-21, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 162 ft^3/s (4.59 m^3/s) Aug. 19, gage height, 1.31 ft (0.399 m); minimum, 5.4 ft^3/s (0.15 m^3/s) Aug. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	55	60	73	71	63	75	52	41	31	8.9	127
2	131	52	60	75	71	52	75	70	38	31	9.0	108
3	129	51	60	68	72	52	76	81	46	31	8.9	83
4	128	51	60	62	73	65	77	96	52	31	8.9	34
5	128	61	60	62	73	62	77	106	52	31	9.1	29
6	128	69	60	62	73	52	95	88	65	31	9.7	82
7	128	69	61	60	73	52	120	54	75	31	9.5	107
8	137	69	62	62	74	53	119	56	75	31	9.4	81
9	148	69	62	60	71	54	119	56	75	30	9.6	42
10	148	69	62	67	69	52	119	54	74	31	9.7	29
11	148	69	62	71	70	65	118	54	73	30	9.5	23
12	148	69	62	71	70	86	118	56	73	30	8.1	14
13	148	69	62	71	70	99	110	70	58	30	6.2	14
14	148	71	62	71	70	98	77	83	48	31	5.9	14
15	148	69	62	71	70	96	51	83	38	31	5.9	14
16	148	69	62	71	69	83	51	98	31	31	5.9	14
17	148	69	62	71	69	73	51	110	32	31	32	14
18	137	69	62	71	75	59	68	110	31	31	93	13
19	131	69	62	71	79	47	101	110	31	31	142	13
20	131	69	62	72	79	47	101	94	31	31	162	13
21	130	69	62	73	84	47	101	83	30	31	159	13
22	131	69	62	73	81	48	90	81	30	31	159	13
23	130	69	62	73	102	54	77	70	30	31	158	13
24	129	69	66	73	118	80	77	53	30	32	143	13
25	128	69	73	73	133	98	77	52	30	27	123	13
26	140	69	73	73	145	98	77	52	30	23	81	13
27	148	69	73	73	145	72	62	67	30	15	58	13
28	148	69	73	73	105	49	52	77	30	8.9	58	13
29	95	69	73	73	---	49	52	77	30	8.6	89	13
30	60	64	73	71	---	64	52	59	30	8.5	109	12
31	59	---	73	71	---	75	---	45	---	8.9	138	---
TOTAL	4077	1992	1990	2161	2354	2044	2515	2297	1339	840.9	1838.2	997
MEAN	132	66.4	64.2	69.7	84.1	65.9	83.8	74.1	44.6	27.1	59.3	33.2
MAX	148	71	73	75	145	99	120	110	75	32	162	127
MIN	59	51	60	60	69	47	51	45	30	8.5	5.9	12
AC-FT	8090	3950	3950	4290	4670	4050	4990	4560	2660	1670	3650	1980

CAL YR 1976 TOTAL 66654.0 MEAN 182 MAX 664 MIN 32 AC-FT 132200 ‡ MEAN 42.1 AC-FT ‡ 30,490
WTR YR 1977 TOTAL 24445.1 MEAN 67.0 MAX 162 MIN 5.9 AC-FT 48490 ‡ MEAN 29.6 AC-FT ‡ 21,440

‡ ADJUSTED FOR STORAGE.

10344490 BOCA RESERVOIR NEAR TRUCKEE, CA
(Formerly published as Boca Reservoir at Boca)

LOCATION.--Lat 39°23'20", long 120°05'45", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Boca Dam on Little Truckee River, 1,800 ft (550 m) upstream from mouth, and 0.5 mi (0.8 km) northwest of Boca.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--December 1938 to current year. Monthend contents only for December 1938 to September 1957, published in WSP 1734.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Pressure gage with mercury column read once daily. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 8, 1938. Usable capacity, 40,870 acre-ft (50.4 hm³) between elevations 5,521 ft (1,682.8 m), outlet sill, and 5,605 ft (1,708.4 m) top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft (1,703.530 m). Dead storage, 241 acre-ft (297,000 m³), below outlet sill. Figures given herein represent usable contents. Water is used for irrigation in the State of Nevada and for power development.

COOPERATION.--Daily elevations furnished by Washoe County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 41,440 acre-ft (51.1 hm³) Dec. 23, 1955, elevation, 5,605.55 ft (1,708.572 m); minimum, 37 acre-ft (45,600 m³) Mar. 4-9, 1955, elevation, 5,521.65 ft (1,682.999 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,040 acre-ft (44.4 hm³) July 8, elevation, 5,599.9 ft (1,706.85 m); minimum, 4,440 acre-ft (5.47 hm³) Sept. 19, 20, elevation 5,548.3 ft (1,691.12 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

5,548	4,350	5,572	14,920
5,552	5,640	5,576	17,360
5,556	7,110	5,580	20,000
5,560	8,780	5,585	23,590
5,564	10,630	5,590	27,490
5,568	12,670	5,600	36,130

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29390	24000	23740	24080	24310	27450	30320	33560	33560	35900	26920	11550
2	28800	24000	23740	24120	24310	27490	30320	33470	33600	35940	26360	11090
3	28220	24040	23740	24230	24340	27570	30320	33420	33640	35940	25850	10600
4	27490	24000	23740	24270	24340	27570	30320	33380	33730	35940	25340	10080
5	26800	24000	23740	24270	24340	27690	30400	33340	33870	35990	24840	9450
6	26170	24000	23740	24270	24340	27770	30450	33290	33960	35940	24230	8870
7	25580	23960	23740	24230	24340	27810	30660	33200	34090	35990	23660	8390
8	25030	23960	23740	24230	24460	27940	30960	33070	34230	36040	23070	7960
9	24730	23960	23780	24230	24460	28020	31180	32980	34310	35900	22480	7430
10	24500	23930	23810	24190	24500	28100	31390	32850	34490	35670	21900	6840
11	24270	23930	23780	24190	24570	28140	31570	32720	34580	35400	21330	6240
12	24080	23930	23780	24190	24730	28300	31700	32590	34760	35220	20760	5640
13	23960	23890	23780	24190	24800	28430	31810	32500	34900	34940	20140	5300
14	23890	23890	23780	24190	24880	28550	31940	32500	34990	34720	19520	5040
15	23780	23890	23780	24190	25030	28640	32110	32460	35080	34450	18890	4830
16	23740	23890	23780	24230	25070	28760	32200	32410	35170	34090	18290	4750
17	23740	23930	23780	24230	25190	28880	32280	32460	35220	33730	17680	4560
18	23610	23930	23610	24230	25270	28970	32370	32540	35220	33340	17200	4470
19	23890	23930	23810	24230	25420	29050	32460	32590	35350	32890	16760	4440
20	23930	23890	23850	24230	25500	29090	32680	32630	35350	32500	16570	4440
21	23930	23810	23850	24270	25690	29180	32810	32720	35350	32110	16170	4470
22	23930	23780	23850	24270	25890	29260	32890	32810	35400	31700	15810	4500
23	23930	23740	23890	24310	26130	29430	32980	32810	35490	31260	15570	4520
24	23930	23740	23890	24310	25250	29470	33030	32890	35530	30880	15270	4550
25	23930	23740	23960	24310	26600	29680	33070	32940	35580	30450	14860	4580
26	23890	23740	23960	24310	26800	29840	33110	32980	35670	29980	14450	4590
27	23850	23740	23960	24310	27000	30060	33290	33050	35720	29550	13880	4620
28	23890	23740	23960	24310	27330	30190	33380	33160	35760	29050	13320	4660
29	23890	23740	24000	24310	---	30230	33420	33250	35810	28510	12830	4670
30	23890	23740	24040	24310	---	30250	33560	33340	35850	27980	12350	4690
31	23890	---	24080	24310	---	30280	---	33420	---	27450	11910	---
MAX	29390	24040	24080	24310	27330	30280	33560	33560	35850	36040	26920	11550
MIN	23740	23740	23740	24080	24310	27450	30320	32410	33560	27450	11910	4440
†	5585.40	5585.20	5585.60	5585.95	5589.80	5593.35	5597.15	5597.00	5599.70	5589.95	5566.55	5549.10
‡	-6430	-150	+340	+230	+3020	+2950	+3280	-140	+2430	-8400	-15540	-7220

CAL YR 1976 MAX 37900 MIN 23740 ‡ -2760
WTR YR 1977 MAX 36040 MIN 4440 ‡ -25630

† Elevation, in feet, at end of month
‡ Change in contents, in acre-feet

10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA
(Formerly published as Little Truckee River at Boca)

LOCATION.--Lat 39°23'10", long 120°05'40", in NE¼NW¼ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on right bank 800 ft (250 m) upstream from mouth, 1,000 ft (300 m) downstream from Boca Dam, and 0.3 mi (0.5 km) northwest of Boca.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--April to October 1890 (monthly discharge only), January 1911 to September 1915, January 1939 to current year. Monthly discharge only for January 1939 to September 1957, published in WSP 1734.

REVISED RECORDS.--WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m), from topographic map. Jan. 1, 1911, to Sept. 30, 1915, nonrecording gage at site 650 ft (200 m) downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

REMARKS.--Records good except for periods of no gage height record,which are fair. Flow regulated by Boca Reservoir, capacity, 40,870 acre-ft (50.4 hm^3), Independence Lake, capacity, about 17,500 acre-ft (21.6 hm^3), one transmountain diversion to Sierra Valley, and Stampede Reservoir, capacity, 226,500 acre-ft (279 hm^3) since Aug. 1, 1969.

AVERAGE DISCHARGE.--42 years (1911-15, 1939-77), 186 ft^3/s (5.268 m^3/s), 134,800 acre-ft/yr (166 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft^3/s (249 m^3/s) Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 572 ft^3/s (16.2 m^3/s) Oct. 1, gage height, 3.60 ft (1.097 m); minimum, 0.14 ft^3/s (0.004 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	468	19	63	63	69	24	83	82	.75	.70	280	336
2	445	50	63	64	69	23	78	103	.75	.72	282	337
3	442	60	63	63	69	16	74	102	.75	10	273	335
4	444	60	66	62	69	16	62	102	.76	9.4	263	335
5	441	80	68	62	69	17	50	116	.74	14	280	334
6	427	83	68	62	69	9.8	26	120	.83	19	298	334
7	408	78	68	71	60	8.2	.90	114	.83	11	300	335
8	346	78	68	76	52	9.8	.95	114	.84	64	304	334
9	281	78	68	71	40	24	.98	114	.94	136	310	334
10	280	78	68	70	24	24	.98	114	.86	154	308	333
11	268	78	67	70	24	24	19	109	.83	145	307	328
12	231	78	67	70	24	39	51	103	.83	136	316	212
13	218	78	67	70	24	49	46	91	.88	143	328	163
14	202	78	67	70	22	49	9.7	84	.70	155	326	118
15	202	70	61	70	19	49	.97	87	.70	187	317	76
16	173	59	55	70	19	20	.98	74	.76	211	312	82
17	122	74	54	70	19	21	.98	65	.79	221	310	70
18	110	84	54	70	19	21	.96	68	16	227	313	33
19	116	92	54	70	19	21	.90	68	27	226	314	16
20	140	103	54	70	19	21	18	51	15	229	312	4.2
21	139	103	54	70	19	8.2	36	38	.73	233	311	.20
22	139	94	54	70	19	8.2	52	38	.73	235	310	.23
23	141	86	53	70	1.7	5.5	55	26	.73	233	309	.20
24	142	80	59	70	25	1.0	62	13	.73	233	315	.20
25	165	74	64	70	39	1.1	32	19	.74	237	330	.18
26	173	74	64	70	39	1.1	.90	27	.76	244	332	.20
27	166	74	64	70	24	1.2	.83	14	.74	251	329	.18
28	166	74	64	70	24	16	.87	13	.72	263	327	.17
29	130	74	63	70	---	30	.89	22	.70	270	328	.15
30	76	67	63	69	---	39	28	12	.70	278	337	.16
31	21	---	63	69	---	69	---	.72	---	280	336	---
TOTAL	7243	2258	1928	2132	988.7	666.1	793.79	2103.72	78.82	5055.82	9617	4451.07
MEAN	234	75.3	62.2	68.8	35.3	21.5	26.5	67.9	2.63	163	310	148
MAX	468	103	68	76	69	69	83	120	27	280	337	337
MIN	21	19	53	62	1.7	1.0	.83	.72	.70	.70	263	.15
AC-FT	14370	4480	3820	4230	1960	1320	1570	4170	156	10030	19080	8830

CAL YR 1976 TOTAL 67655.81 MEAN 185 MAX 629 MIN .58 AC-FT 134600
WTR YR 1977 TOTAL 37316.02 MEAN 102 MAX 488 MIN .15 AC-FT 74020

10346000 TRUCKEE RIVER AT FARAD, CA
(National stream-quality accounting network station)

LOCATION.--Lat 39°25'41", long 120°01'59", in NE¼ sec.12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.5 mi (0.8 km) upstream from Mystic Canyon, 0.7 mi (1.1 km) downstream from Farad powerplant, 2.5 mi (4.0 km) north of Floriston, 3.4 mi (5.5 km) downstream from Bronco Creek, and 3.5 mi (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi^2 (2,414 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca" March to October 1890, "at or near Nevada-California State line" September 1899 to August 1912, and as "at Iceland" August 1912 to December 1937.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft (1,570.698 m) above mean sea level (Bureau of Reclamation bench mark). March to October 1890, nonrecording gage at site about 7 mi (11 km) upstream at different datum. Sept. 7, 1899, to May 31, 1909, nonrecording gage at approximately present location at different datum. June 1, 1909, to July 31, 1912, nonrecording gage at site about 2.5 mi (4.0 km) downstream at different datum. Aug. 1, 1912, to Dec. 31, 1937, water-stage recorder at site 4.1 mi (6.6 km) upstream at different datum. Jan. 1, 1938, to Aug. 27, 1957, water-stage recorder at approximately present location at different datum.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Martis Creek Lake, Prosser Creek, Stampede and Boca Reservoirs, Donner and Independence Lakes, and by several powerplants.

AVERAGE DISCHARGE.--78 years (1899-1977), 794 ft^3/s (22.49 m^3/s), 575,300 acre-ft/yr (709 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s (496 m^3/s) Nov. 21, 1950, gage height, 14.5 ft (4.420 m), present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft^3/s (0.793 m^3/s) Dec. 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 763 ft^3/s (21.6 m^3/s) Oct. 7, gage height, 3.36 ft (1.024 m); minimum, 33 ft^3/s (0.93 m^3/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585	352	352	337	368	330	360	429	437	396	416	388
2	560	368	356	364	368	341	372	425	437	392	416	388
3	536	376	352	368	364	356	368	412	400	396	408	384
4	522	341	356	356	364	345	368	416	433	396	392	380
5	513	349	356	356	364	334	392	437	450	396	396	376
6	536	364	345	330	368	341	421	421	459	404	416	376
7	645	356	345	337	364	341	421	400	455	396	412	376
8	600	352	349	352	364	337	421	408	368	388	412	376
9	513	352	352	345	360	360	396	421	380	404	412	376
10	508	349	349	364	337	337	326	421	437	416	412	372
11	508	349	345	364	334	334	312	425	384	412	408	368
12	463	349	356	364	337	349	341	442	364	392	408	301
13	495	341	360	360	337	345	376	437	384	392	425	219
14	499	368	356	356	337	341	349	463	421	400	421	179
15	590	364	352	356	337	360	334	463	416	412	408	141
16	565	341	345	356	341	360	360	437	408	425	396	125
17	527	345	341	356	341	352	384	425	400	416	392	156
18	508	356	337	356	337	326	352	429	376	421	396	118
19	504	352	337	356	337	330	334	429	404	412	396	97
20	513	364	334	360	337	337	334	437	404	412	392	86
21	518	364	334	364	412	341	368	446	408	416	392	84
22	522	356	334	368	388	345	392	459	400	412	388	82
23	481	360	334	364	352	356	404	429	392	408	384	80
24	455	360	334	368	330	330	437	396	396	404	384	77
25	459	352	341	368	330	312	376	404	408	400	396	77
26	490	349	341	368	341	284	346	429	396	404	400	75
27	486	337	337	364	341	294	341	442	392	400	392	75
28	481	337	337	364	345	301	356	360	404	412	388	66
29	459	337	341	364	---	312	352	376	400	412	384	63
30	429	356	345	360	---	305	376	388	408	421	384	63
31	380	---	341	368	---	323	---	404	---	421	392	---
TOTAL	15850	10596	10694	11113	9835	10359	11069	13110	12221	12588	12418	6324
MEAN	511	353	345	358	351	334	369	423	407	406	401	211
MAX	645	376	360	368	412	360	437	463	459	425	425	388
MIN	380	337	334	330	330	284	312	360	364	388	384	63
AC-FT	31440	21020	21210	22040	19510	20550	21960	26000	24240	24970	24630	12540

CAL YR 1976 TOTAL 222810 MEAN 609 MAX 1130 MIN 334 AC-FT 441900
WTR YR 1977 TOTAL 136177 MEAN 373 MAX 645 MIN 63 AC-FT 270100

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1951 to current year (published as Truckee River at Floriston, sta. no. 10345900, January 1964 to September 1971).
CHEMICAL ANALYSES: April 1951 to September 1952, occasional; October 1952 to September 1958, monthly (seasonal); October 1958 to September 1961, monthly; January 1964 to February 1968, once-daily (composited); March 1968 to September 1969, once-daily (composited) and monthly; October 1969 to April 1974, monthly; June 1974 to current year, twice-monthly.
SPECIFIC CONDUCTANCES: April 1951 to September 1952, occasional; October 1952 to September 1958, monthly (seasonal); October 1958 to September 1961, monthly; January 1964 to current year, once-daily.
BIOLOGICAL DATA: January 1975 to current year, monthly.
MICROBIOLOGICAL DATA: May 1974 to current year, twice-monthly.
WATER TEMPERATURES: March 1960 to December 1963, monthly; January 1964 to current year, once-daily.
SEDIMENT DATA: February 1974 to current year, monthly.

REMARKS.--Water quality at this site is considered comparable with that of sta. no. 10345900, Truckee River at Floriston, which was operated 2.5 mi (4.0 km) upstream from present site during January 1964 - September 1971. Daily specific-conductance and temperature data are collected at Farad powerplant, 0.7 mi (1.1 km) upstream from gage.

COOPERATION.--Samples through September 1961 were collected by California Department of Water Resources. Microbiological analyses for entire period of record by Nevada Bureau of Laboratories and Research.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 169 micromhos Sept. 28, 30, 1977; minimum, 39 micromhos Dec. 23, 1964.
WATER TEMPERATURES: Maximum, 21.0°C Aug. 2, 6, 1971, June 27, 1977; minimum, freezing point on several days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 42 mg/L May 21, 1975; minimum, 2 mg/L Dec. 8, 1975, Jan. 7, 1976.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 169 micromhos Sept. 28, 30; minimum, 77 micromhos June 1.
WATER TEMPERATURES: Maximum, 21.0°C June 27; minimum, freezing point Jan. 6, 7, Feb. 22-24, Mar. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
CT												
12...	1230	550	97	8.3	12.5	1	1.4	--	12	820	8	18
26...	1150	481	102	7.8	9.5	--	2.8	--	4	828	0	7
OV												
29...	1210	338	107	8.0	3.0	2	1.5	11.2	2	58	0	3
EC												
13...	1055	363	107	8.2	3.0	2	1.7	--	4	5	0	0
28...	1240	334	108	8.1	2.0	--	1.9	--	7	33	0	--
AN												
10...	1120	363	109	--	1.5	2	2.2	--	18	57	1	3
24...	1100	366	104	8.0	3.5	--	3.2	--	0	66	0	2
EB												
07...	1105	373	108	7.8	4.0	2	1.9	11.0	7	3	0	60
28...	1040	341	112	8.2	4.5	--	2.6	--	17	73	0	2
AR												
15...	1130	377	111	8.6	3.5	1	.70	--	17	44	0	2
28...	1110	295	119	8.4	5.5	--	5.8	--	2	>80	0	5
PR												
11...	1030	293	113	8.3	8.0	10	9.7	--	6	>80	0	0
25...	1210	432	96	8.3	9.5	--	15	--	--	>80	1	2
AY												
16...	1200	453	99	8.7	8.0	2	2.4	10.1	9	62	0	2
31...	1220	394	90	8.2	14.0	--	3.8	--	11	390	<10	<2
UN												
13...	1000	363	100	8.2	14.0	3	4.2	--	4	824	10	15
27...	1140	396	96	8.1	18.5	--	5.8	--	2	>80	2	130
JL												
11...	1220	424	100	8.4	16.5	2	1.8	--	0	>80	2	17
25...	1025	396	103	8.3	13.5	--	1.4	--	10	>160	1	9
JG												
16...	1015	392	109	8.0	16.0	2	2.0	8.1	6	>160	2	2
30...	1140	400	116	8.4	17.5	--	1.7	--	8	>160	0	10
EP												
16...	1055	56	140	8.2	13.0	2	2.1	--	3	--	--	--

NON-IDEAL COLONY COUNT

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10346000 TRUCKEE RIVER AT FARAD, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL PCB (UG/L)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
FEB								
07...	1105	.0	.00	.00	.0	.00	.00	.00
MAY								
16...	1200	.0	.00	.00	.0	.00	.00	.00
SEP								
16...	1055	.0	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDO-SULFAN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)
FEB									
07...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY									
16...	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP									
16...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
FEB								
07...	.00	.00	.00	0	.00	.00	.00	.00
MAY								
16...	.00	.00	.00	0	.00	.00	.00	.00
SEP								
16...	.00	.00	.00	0	.00	.00	.00	.00

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT				
12...	1230	550	4	5.9
NOV				
29...	1210	338	3	2.7
DEC				
13...	1055	363	3	2.9
JAN				
10...	1120	363	4	3.9
FEB				
07...	1105	373	4	4.0
MAR				
15...	1130	377	3	3.1
APR				
11...	1030	293	14	11
MAY				
16...	1200	453	4	4.9
JUN				
13...	1000	363	11	11
JUL				
25...	1025	396	6	6.4
AUG				
30...	1140	400	5	5.4
SEP				
16...	1055	56	5	.76

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10346000 TRUCKEE RIVER AT FARAD, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 12,76	NOV 29,76	DEC 13,76	JAN 10,77	FEB 7,77
TIME	1230	1210	1055	1120	1105
TOTAL CELLS/ML	450	350	270	690	870
DIVERSITY: DIVISION	1.1	1.1	1.0	0.5	0.2
.CLASS	1.1	1.1	1.0	0.5	0.2
..ORDER	1.2	1.5	1.7	0.7	0.5
...FAMILY	2.4	2.9	2.9	3.1	2.8
....GENUS	2.5	3.3	3.4	3.6	3.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	8	2	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	2	1	3	1	--	-	--	-
....OOCYSTIS	*	0	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	*	0	--	-	--	-	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	*	0	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
...ZYGNEMATACEAE										
....MOUGEOTIA	--	-	*	0	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...NAVICULACEAE										
....ENTOMONEIS	--	-	--	-	7	2	--	-	--	-
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	11	2	7	2	17	6	14	2	48	6
....MELOSIRA	--	-	40	11	47#	17	9	1	--	-
....STEPHANODISCUS	--	-	--	-	3	1	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	14	3	13	4	10	4	5	1	85	10
....COCCONEIS	3	1	2	1	*	0	24	3	--	-
....RHOICOSPHENIA	3	1	*	0	*	0	14	2	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	*	0	--	-	--	-	--	-
....CYMBELLA	58	13	18	5	37	13	71	10	67	8
....EPITHEMIA	*	0	*	0	*	0	19	3	--	-
....RHOPALODIA	*	0	*	0	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	3	1	*	0	--	-	24	3	12	1
...EUNOTIACEAE										
....EUNOTIA	*	0	--	-	--	-	--	-	6	1
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	7	2	27	10	--	-	18	2
....FRAGILARIA	3	1	4	1	*	0	71	10	260#	30
....HANNAEA	*	0	*	0	3	1	9	1	42	5
....SYNEDRA	5	1	4	1	10	4	38	5	18	2
...GOMPHONEMATACEAE										
....GOMPHONEMA	8	2	4	1	7	2	24	3	61	7
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	*	0	--	-
...NAVICULACEAE										
....CALONEIS	--	-	--	-	--	-	5	1	--	-
....DIPLONEIS	--	-	--	-	--	-	--	-	6	1
....FRUSTULIA	--	-	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	5	1	--	-
....NAVICULA	47	10	4	1	13	5	80	12	110	13
....NEIDIUM	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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10346000 TRUCKEE RIVER AT FARAD, CA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 11,77	MAY 16,77	JUN 13,77	JUL 11,77	AUG 16,77
TIME	1030	1200	1000	1220	1015
TOTAL CELLS/ML	690	760	1700	1500	370
DIVERSITY: DIVISION	1.1	0.1	0.1	0.0	0.3
.CLASS	1.1	0.1	0.1	0.1	0.3
..ORDER	1.1	0.6	0.2	0.5	0.9
...FAMILY	2.2	2.7	2.9	2.4	2.8
....GENUS	2.4	2.9	3.4	3.1	3.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
...NITZSCHIACEAE										
....NITZSCHIA	61	9	75	10	83	5	14	1	13	4
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
...TABELLARIACEAE										
....TABELLARIA	*	0	37	5	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	*	0	--	-	14	1	--	-
.XANTHOPHYCEAE										
..RHIZOCHLORIDALES										
...STIPITOCOCCACEAE										
....STIPITOCOCCUS	--	-	*	0	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	*	0	--	-	--	-	--	-
....OSCILLATORIA	370#	54	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	4	1
....TRACHELOMONAS	15	2	--	-	--	-	--	-	4	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Retrieval Date	Length of exposure Polyethylene strip (days)	Biomass (mg/m^2)		Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio
		Dry weight	Ash weight			
Jan 10	43	385	231	0.032	0.022	4,813

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10346000 TRUCKEE RIVER AT FARAD, CA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	111	108	108	107	112	109	98	77	95	106	110
2	89	105	107	106	107	112	109	96	82	97	105	111
3	88	106	107	106	106	109	109	99	82	97	105	110
4	86	105	107	108	107	110	111	102	82	97	106	---
5	87	106	107	109	107	111	109	98	78	96	105	110
6	91	105	107	109	107	111	106	101	79	97	105	110
7	91	105	106	113	109	113	101	---	78	97	105	---
8	91	105	105	---	109	113	101	100	84	97	106	---
9	94	106	107	---	111	111	97	100	88	102	106	111
10	95	104	106	---	110	110	101	101	82	103	106	110
11	95	105	106	109	110	112	107	102	92	101	107	111
12	97	105	107	108	110	---	---	99	94	103	107	112
13	96	106	107	---	109	---	107	101	94	103	106	116
14	99	104	107	108	111	112	---	96	90	104	107	121
15	101	108	107	108	---	112	107	93	92	105	107	126
16	103	108	107	108	110	112	102	97	93	105	---	127
17	103	108	---	106	110	112	95	99	92	105	107	142
18	103	105	107	107	111	112	95	99	95	---	107	138
19	104	106	107	---	110	112	103	100	95	101	107	147
20	102	102	107	107	111	113	103	99	95	105	108	150
21	102	105	107	107	112	112	104	90	93	103	108	154
22	102	105	107	108	107	112	103	87	93	104	108	154
23	102	105	107	108	118	111	97	93	94	105	109	154
24	103	106	107	108	112	113	95	97	94	103	---	157
25	103	105	107	107	113	---	95	95	92	105	109	159
26	99	104	107	108	112	117	97	93	92	---	108	157
27	100	104	109	107	112	115	103	86	93	---	109	159
28	99	105	107	107	114	116	99	94	93	---	109	169
29	100	106	107	106	---	113	96	89	94	105	109	165
30	101	105	107	107	---	114	93	89	93	104	109	169
31	104	---	106	108	---	112	---	86	---	104	110	---
MEAN	97	105	106	107	110	112	101	95	89	101	107	135
MAX	104	111	109	113	118	117	111	102	95	105	110	169
MIN	85	102	105	106	106	109	93	86	77	95	105	110

WTR YR 1977 MEAN 105 MAX 169 MIN 77

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	6.5	3.0	2.0	3.5	2.0	4.5	7.5	13.0	19.0	14.0	15.0
2	14.0	9.0	4.0	3.0	2.0	0.5	4.5	9.5	13.0	18.0	14.5	16.0
3	13.0	8.0	4.5	2.5	3.0	1.5	5.0	6.5	13.0	17.0	15.0	16.0
4	16.0	9.0	4.5	2.0	2.5	4.5	6.0	7.0	13.0	15.5	16.5	---
5	13.0	9.0	3.0	1.5	2.5	4.5	7.5	7.0	13.0	15.0	16.0	15.0
6	16.0	7.0	2.5	0.0	3.5	4.5	7.5	6.5	16.0	14.0	15.0	19.0
7	13.0	7.0	4.0	0.0	3.5	4.5	7.0	---	14.0	16.0	16.5	---
8	15.5	7.0	4.5	---	5.0	5.0	7.5	8.0	13.5	19.0	15.5	---
9	12.5	7.0	4.0	---	3.5	5.0	7.0	6.5	13.0	17.5	15.0	15.0
10	12.5	7.0	4.0	---	4.0	1.5	7.0	7.5	11.0	14.0	18.0	19.0
11	12.0	7.0	3.5	1.0	3.0	2.0	6.5	6.5	12.0	17.0	16.5	19.5
12	11.0	7.0	1.5	3.5	4.0	---	---	6.5	13.0	17.5	16.0	15.5
13	10.0	5.5	2.0	---	4.0	---	6.5	7.0	12.0	15.0	20.0	15.0
14	10.5	6.5	2.0	0.5	6.0	0.0	---	10.5	15.0	14.5	17.0	14.5
15	10.5	8.0	2.0	0.5	---	3.0	7.0	---	14.0	14.5	16.0	14.0
16	10.0	7.0	1.5	1.0	6.0	3.0	9.0	7.5	14.0	14.0	---	14.0
17	10.5	7.0	---	2.0	6.5	3.0	7.5	5.0	15.5	14.5	16.0	11.0
18	12.0	7.0	1.0	1.0	4.0	2.5	9.0	5.0	15.5	---	18.5	11.0
19	9.0	8.0	1.0	---	5.0	5.0	6.0	5.0	14.0	17.0	18.0	13.0
20	11.0	8.0	1.0	2.5	5.5	5.5	7.0	9.0	15.0	12.0	17.5	13.5
21	11.5	8.0	1.0	4.0	5.0	4.5	7.5	13.0	14.0	17.0	17.0	14.0
22	10.0	6.5	1.0	4.5	0.0	5.0	8.5	10.0	15.0	13.0	16.5	8.0
23	10.0	5.5	2.0	5.0	0.0	6.0	8.5	7.5	16.0	13.0	17.0	13.5
24	9.5	5.0	1.0	3.5	0.0	2.5	8.5	7.0	18.0	17.0	---	13.0
25	9.0	5.5	1.5	3.0	1.0	---	8.0	8.5	18.0	13.0	16.0	16.5
26	9.0	5.0	2.0	3.0	2.0	7.5	9.0	10.0	18.0	---	16.0	13.0
27	7.5	2.0	1.0	4.0	5.5	4.0	8.0	8.5	21.0	---	16.0	11.0
28	9.0	2.0	0.5	4.5	4.0	3.0	8.0	10.5	18.5	---	16.0	13.0
29	8.0	2.5	3.0	4.0	---	3.5	8.5	12.5	17.0	11.5	15.5	12.5
30	9.0	4.0	3.0	3.0	---	3.5	10.5	12.5	17.0	11.5	16.0	13.0
31	7.5	---	3.0	2.0	---	5.0	---	12.5	---	11.0	15.0	---
MEAN	11.1	6.4	2.4	2.4	3.5	3.6	7.3	8.2	14.8	15.1	16.2	14.2
MAX	16.0	9.0	4.5	5.0	6.5	7.5	10.5	13.0	21.0	19.0	20.0	19.5
MIN	7.5	2.0	0.5	0.0	0.0	0.0	4.5	5.0	11.0	11.0	14.0	8.0

YR 1977 MEAN 8.8 MAX 21.0 MIN 0.0

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10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°12'12", long 119°52'17", in NW¼SW¼SE¼ sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, in Toiyabe National Forest, on right bank 300 ft (100 m) upstream from Red House diversion dam, 0.2 mi (0.3 km) upstream from Red House, and 6.1 mi (9.8 km) northwest of Carson City.

DRAINAGE AREA.--3.24 mi² (8.39 km²).

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,380 ft (2,250 m), from topographic map.

REMARKS.--Records fair except Nov. 1 to Apr. 17,which are poor. Flow regulated by Hobart Reservoir, and Marlette Lake (by pumping, during dry years). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50 ft³/s (1.42 m³/s) May 31, 1975, gage height 2.14 ft (0.652 m); maximum gage height, 3.68 ft (1.122 m), backwater from ice or snowblock; minimum discharge, 0.48 ft³/s (0.014 m³/s) Sept. 9-11, 13-17, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.4 ft³/s (0.18 m³/s) May 22, gage height, 1.67 ft (0.509 m); minimum discharge, 0.60 ft³/s (0.017 m³/s) Sept. 2-4, 14-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	1.5	1.3	1.2	1.7	1.7	1.2	3.4	3.7	1.2	.68	.65
2	3.8	1.5	1.3	1.2	1.6	1.7	1.2	3.2	2.7	1.2	.68	.62
3	3.1	1.5	1.3	1.2	1.6	1.7	1.2	2.8	2.5	1.2	.68	.62
4	1.9	1.5	1.3	1.2	1.7	1.7	1.2	2.5	2.9	1.2	.68	.64
5	1.7	1.5	1.3	1.3	1.7	1.7	1.2	2.7	2.9	1.2	.65	.65
6	2.6	1.4	1.3	1.3	1.6	1.8	1.3	2.8	2.7	1.2	.66	.65
7	2.5	1.4	1.3	1.4	1.6	1.8	1.3	2.4	2.5	1.0	.66	.65
8	2.0	1.4	1.3	1.4	1.6	1.8	1.4	2.7	2.4	.94	.65	.66
9	1.7	1.4	1.3	1.4	1.6	1.8	1.5	2.8	3.3	.92	.65	.66
10	1.6	1.4	1.3	1.5	1.6	1.9	1.4	2.4	4.1	.92	.70	.66
11	1.3	1.4	1.3	1.5	1.5	1.5	1.4	2.3	2.9	.92	.70	.65
12	1.3	1.4	1.4	1.5	1.5	1.2	1.4	2.4	2.3	.88	.70	.65
13	1.4	1.4	1.3	1.5	1.5	1.2	1.4	2.8	2.1	.88	.68	.65
14	1.4	1.3	1.3	1.5	1.5	1.2	1.5	3.6	2.0	.88	.68	.64
15	1.4	1.3	1.3	1.5	1.6	1.2	1.6	3.9	1.8	.81	.68	.62
16	1.4	1.3	1.3	1.4	1.6	1.2	2.0	3.3	1.7	.74	.68	.62
17	1.4	1.3	1.3	1.5	1.6	1.2	2.5	3.0	1.6	.74	.68	.62
18	1.4	1.3	1.3	1.4	1.7	1.2	4.7	2.5	1.6	.71	.68	.65
19	1.4	1.3	1.3	1.4	1.6	1.2	4.0	3.2	1.6	.71	.70	.65
20	1.3	1.3	1.3	1.5	1.6	1.2	4.4	4.8	1.6	.71	.70	.72
21	1.4	1.3	1.3	1.7	1.6	1.2	4.1	5.4	1.6	.71	.70	.68
22	1.4	1.3	1.3	1.8	1.6	1.2	4.0	5.6	1.5	.71	.70	.68
23	1.4	1.3	1.3	1.7	1.6	1.2	4.1	5.0	1.4	.71	.65	.68
24	1.5	1.3	1.3	1.6	1.6	1.2	4.3	3.7	1.4	.71	.65	.71
25	1.5	1.3	1.2	1.5	1.7	1.2	4.5	3.6	1.4	.71	.65	.71
26	1.5	1.3	1.2	1.5	1.7	1.2	3.9	3.4	1.4	.71	.65	.71
27	1.5	1.3	1.2	1.5	1.7	1.2	3.6	3.4	1.3	.68	.65	.71
28	1.5	1.3	1.2	1.5	1.7	1.2	3.7	3.4	1.2	.67	.65	.89
29	1.5	1.3	1.2	1.6	---	1.2	3.7	3.4	1.2	.65	.65	1.1
30	1.5	1.3	1.2	1.7	---	1.2	3.4	3.4	1.2	.65	.65	1.1
31	1.5	---	1.2	1.7	---	1.2	---	3.6	---	.67	.65	---
TOTAL	53.5	40.8	39.7	45.6	45.2	43.1	77.1	103.4	62.5	26.54	20.82	20.90
MEAN	1.73	1.36	1.28	1.47	1.61	1.39	2.57	3.34	2.08	.86	.67	.70
MAX	3.8	1.5	1.4	1.8	1.7	1.9	4.7	5.6	4.1	1.2	.70	1.1
MIN	1.3	1.3	1.2	1.2	1.5	1.2	1.2	2.3	1.2	.65	.65	.62
AC-FT	106	81	79	90	90	85	153	205	124	53	41	41

CAL YR 1976 TOTAL 796.61 MEAN 2.18 MAX 9.0 MIN .48 AC-FT 1580
WTR YR 1977 TOTAL 579.16 MEAN 1.59 MAX 5.6 MIN .62 AC-FT 1150

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10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°16'30", long 119°47'35", in S½SE¼ sec.1, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on Washoe County boatdock on northeast shore about 6.8 mi (10.9 km) north of Carson City.

DRAINAGE AREA.--83.8 mi² (217 km²), including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Reference mark. Datum of gage is at mean sea level.

REMARKS.--Lake is formed by a natural basin whose natural rim falls below the control works on Little Washoe Lake allowing storage regulation. Total capacity 49,200 acre-ft (60.7 hm³) between elevations 5,017.5 ft (1,529.33 m) and 5,031.0 ft (1,533.45 m). Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,030.6 ft (1,533.33 m) Feb. 12, 24, 1970; minimum observed, 5,022.1 ft (1,530.74 m) Sept. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,025.3 ft (1,531.71 m) Feb. 28; minimum observed, 5,022.1 ft (1,530.74 m) Sept. 30.

MONTH-END ELEVATIONS AND TOTAL CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sept.30	5,025.0	17,300	--
Oct. 31	5,024.7	16,100	-1,200
Nov. 30	5,024.5	15,300	-800
Dec. 31	5,024.5	15,300	0
CAL YR 1976	--	--	-12,400
Jan. 31	5,024.7	16,100	+800
Feb. 28	5,025.3	18,540	+2,440
Mar. 31	5,025.0	17,300	-1,240
Apr. 30	5,024.8	16,500	-800
May 31	5,024.6	15,700	-800
June 30	5,024.0	13,400	-2,300
July 31	5,023.2	10,610	-2,790
Aug. 31	5,022.6	8,800	-1,810
Sept.30	5,022.1	7,300	-1,500
WTR YR 1976-77	--	--	-10,000

NOTE.--Month-end elevations are interpolated from readings made during the month.

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10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in S½ sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 250 ft (80 m) upstream from Steamboat ditch, 0.2 mi (0.3 km) southwest of Steamboat Post Office, and 11 mi (18 km) southeast of Reno.

DRAINAGE AREA.--123 mi² (319 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,600 ft (1,402 m), from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--16 years, 13.8 ft³/s (0.391 m³/s), 10,000 acre-ft/yr (12.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft³/s (28.3 m³/s) Jan. 31, 1963, gage height, 5.44 ft (1.658 m), from rating curve extended above 360 ft³/s (10.2 m³/s); minimum, no flow Sept. 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft³/s (1.61 m³/s) Feb. 21, gage height, 1.89 ft (0.576 m); minimum, no flow Sept. 9-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.3	3.6	3.1	4.2	3.1	1.1	1.5	3.1	.98	.28	.16
2	3.3	2.6	3.8	5.7	4.5	3.1	1.4	1.5	2.7	.80	.24	.20
3	1.9	2.4	3.6	5.2	4.2	3.1	1.3	4.7	2.7	.65	.20	.16
4	1.3	2.1	3.6	3.6	4.0	3.1	1.2	7.1	3.4	.55	.20	.16
5	1.5	2.0	3.4	3.2	3.3	3.1	1.5	8.6	3.6	.55	.20	.20
6	1.5	2.3	3.4	2.9	3.1	3.1	1.5	9.6	3.1	.52	.20	.16
7	1.4	2.1	3.6	2.7	2.7	2.9	1.5	11	2.1	.52	.20	.12
8	1.4	2.0	3.8	2.7	2.9	2.9	1.3	11	2.4	.49	.24	.04
9	1.3	1.7	3.6	2.4	2.7	4.0	1.3	15	8.3	.46	.20	.00
10	1.3	1.7	3.6	2.9	2.7	3.4	1.4	7.6	7.9	.46	.16	.00
11	1.3	1.7	3.5	3.4	3.1	3.1	1.1	7.3	4.2	.46	.24	.00
12	1.3	2.0	3.4	3.8	2.9	3.1	1.6	11	2.9	.43	.24	.00
13	1.9	2.1	3.4	3.6	2.7	2.9	1.3	7.3	2.1	.43	.24	.00
14	2.7	2.9	3.4	3.8	2.7	2.9	1.9	5.7	2.0	.40	.24	.00
15	3.1	3.6	3.3	3.8	2.7	2.9	3.6	5.7	1.5	.36	.16	.00
16	2.6	3.8	3.1	3.8	2.9	2.9	3.6	5.2	1.3	.32	.08	.04
17	2.1	5.2	3.1	3.6	2.9	2.9	3.3	4.9	2.1	.24	.08	.08
18	1.7	4.5	3.1	3.8	2.1	2.7	2.9	4.2	7.6	.24	.08	.04
19	1.5	4.2	3.0	3.6	2.6	2.7	2.3	4.7	9.0	.24	.08	.12
20	1.4	4.0	2.9	3.6	2.3	2.7	1.9	4.2	3.4	.24	.12	.12
21	1.5	4.0	3.1	4.0	17	2.6	1.5	2.7	3.3	.20	.20	.12
22	2.0	4.2	3.1	5.2	6.8	2.3	1.7	3.1	2.3	.28	.20	.12
23	2.3	4.0	3.3	4.7	5.4	1.6	1.7	3.4	2.1	.28	.16	.16
24	2.3	3.8	2.9	4.2	4.7	1.6	1.6	3.8	1.3	.24	.20	.12
25	2.4	3.8	2.4	4.0	4.2	2.1	1.7	3.6	1.3	.20	.20	.16
26	2.6	3.6	3.3	4.0	3.8	2.3	1.7	2.9	1.1	.16	.20	.24
27	2.7	3.3	3.1	4.0	3.3	2.0	1.6	2.6	1.0	.24	.20	.24
28	3.3	3.4	3.1	4.0	3.1	1.5	1.5	2.3	.86	.24	.20	.24
29	3.4	3.4	3.3	4.2	---	.98	1.7	2.4	.80	.24	.20	.20
30	3.4	3.5	3.4	4.2	---	.98	1.4	3.1	.92	.24	.20	.24
31	3.8	---	3.3	4.5	---	1.1	---	3.1	---	.24	.16	---
TOTAL	65.4	93.2	102.5	118.2	109.5	79.66	53.1	170.8	90.38	11.90	5.80	3.44
MEAN	2.11	3.11	3.31	3.81	3.91	2.57	1.77	5.51	3.01	.38	.19	.11
MAX	3.8	5.2	3.8	5.7	17	4.0	3.6	15	9.0	.98	.28	.24
MIN	1.2	1.7	2.4	2.4	2.1	.98	1.1	1.5	.80	.16	.08	.00
AC-FT	130	185	203	234	217	158	105	339	179	24	12	6.8

CAL YR 1976 TOTAL 1352.60 MEAN 3.70 MAX 13 MIN .57 AC-FT 2680
WTR YR 1977 TOTAL 903.88 MEAN 2.48 MAX 17 MIN .00 AC-FT 1790

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10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'05", long 119°40'58", in NW¼NE¼ sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 800 ft (250 m) downstream from Southern Pacific Railroad bridge, 0.9 mi (1.4 km) southeast of Vista, 1.5 mi (2.4 km) downstream from Steamboat Creek, and 4 mi (6 km) southeast of Sparks.

DRAINAGE AREA.--1,429 mi^2 (3,701 km^2).

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1634: 1904. WSP 1714: Drainage area. WSP 1734: 1907 (M). WRD 1975: 1963 (M).

GAGE.--Water-stage recorder. Datum of gage is 4,368.59 ft (1,331.546 m) above mean sea level, datum of 1929, supplementary adjustment of 1956. Prior to Apr. 16, 1907, nonrecording gages at several sites in vicinity of present site at various datums. May to December 1907 reference point on railroad bridge. January 1932 to December 1954, October 1958 to Aug. 17, 1959, water-stage recorder at site 1,200 ft (366 m) upstream at datum 5.59 ft (1.704 m) higher.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Stampede, Boca, and Prosser Creek Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft (1.32 km^3). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations." Water-quality records for the current year are published for Truckee River at Lockwood (see next page), 2.1 mi (3.4 km) downstream. Several powerplants and many diversions above station.

AVERAGE DISCHARGE.--49 years, 798 ft^3/s (22.60 m^3/s), 578,200 acre-ft/yr (713 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 18,900 ft^3/s (535 m^3/s) Feb. 1, 1963, gage height, 16.76 ft (5.108 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 7 ft^3/s (0.20 m^3/s) Aug. 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known, 17.04 ft (5.194 m), from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft^3/s (425 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft^3/s (13.0 m^3/s) June 9, gage height, 3.84 ft (1.170 m); maximum gage height, 4.04 ft (1.231 m) May 9 (backwater condition); minimum 54 ft^3/s (1.53 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575	445	412	437	474	398	336	182	230	218	176	182
2	591	445	440	474	465	398	366	216	241	216	188	176
3	561	449	445	556	470	417	359	223	218	235	197	188
4	500	429	450	474	465	413	359	216	186	233	197	186
5	514	402	450	465	465	402	373	211	254	216	172	180
6	509	425	450	441	470	395	413	283	230	199	188	170
7	596	421	425	410	470	395	373	302	268	174	202	153
8	677	415	418	425	457	384	395	329	302	166	191	148
9	514	425	425	433	457	417	373	369	304	170	191	140
10	478	415	445	453	425	433	333	309	425	197	188	138
11	482	425	445	465	406	380	245	243	378	211	176	135
12	457	425	445	461	417	391	225	358	300	195	172	188
13	425	425	425	453	417	395	186	372	228	174	193	235
14	453	430	430	453	433	384	166	364	218	150	235	193
15	537	475	433	449	417	425	123	361	225	152	208	170
16	591	435	421	457	421	425	108	386	230	182	178	137
17	566	405	417	453	410	433	106	375	225	184	172	150
18	541	435	413	457	406	410	102	372	218	184	197	168
19	556	450	417	461	391	391	123	389	378	170	186	132
20	546	452	413	465	391	391	124	358	347	161	184	114
21	561	453	406	487	566	387	157	334	378	164	174	96
22	566	453	413	514	682	359	152	361	312	178	161	94
23	556	445	421	500	514	384	191	369	223	170	162	86
24	518	430	421	487	449	349	206	327	188	164	161	90
25	500	405	425	478	406	346	228	280	238	166	172	81
26	527	440	433	474	417	317	204	295	262	161	186	73
27	551	440	433	470	413	287	159	337	241	162	195	72
28	575	425	429	470	410	311	174	265	230	162	180	72
29	591	422	437	461	---	330	168	174	225	172	176	77
30	551	430	441	457	---	336	164	202	197	157	172	74
31	523	---	445	470	---	320	---	188	---	166	186	---
TOTAL	16688	12971	13323	14410	12584	11803	6991	9350	7899	5609	5716	4098
MEAN	538	432	430	465	449	381	233	302	263	181	184	137
MAX	677	475	450	556	682	433	413	389	425	235	235	235
MIN	425	402	406	410	391	287	102	174	186	150	161	72
AC-FT	33100	25730	26430	28580	24960	23410	13870	18550	15670	11130	11340	8130

CAL YR 1976 TOTAL 212088 MEAN 579 MAX 998 MIN 377 AC-FT 420700
WTR YR 1977 TOTAL 121442 MEAN 333 MAX 682 MIN 72 AC-FT 240900

10350050 TRUCKEE RIVER AT LOCKWOOD, NV

LOCATION.--Lat 39°30'36", long 119°38'52", in SE¼SE¼ sec.17, T.19 N., R.21 E., on boundary line between Washoe and Storey Counties, Hydrologic Unit 16050102, at bridge 2.1 mi (3.4 km) downstream from stream-gaging station 10350000 (Truckee River at Vista), 2.7 mi (4.3 km) downstream from mouth of North Truckee Drain, 3.3 mi (5.3 km) downstream from mouth of Steamboat Creek, and 6 mi (10 km) southeast of Sparks.

DRAINAGE AREA.--1,433 mi² (3,711 km²).

PERIOD OF RECORD.--August 1966 to December 1973, May 1974 to current year.
CHEMICAL ANALYSES AND WATER TEMPERATURES: August 1966 to May 1967, occasional; June 1967 to December 1973, monthly; May 1974 to current year, twice-monthly.
SPECIFIC CONDUCTANCES: May 1974 to current year, twice-monthly.
MICROBIOLOGICAL DATA: June 1967 to December 1973, monthly; May 1974 to current year, twice-monthly.

REMARKS.--Estimated streamflows are based on data from station 10350000, and are considered accurate for Lockwood site except during periods of low flow, when a small diversion for irrigation in Lockwood area could significantly decrease streamflow. Effluent from Reno-Sparks Joint Waste Water Treatment Plant enters Steamboat Creek several hundred feet upstream from confluence with Truckee River.

COOPERATION.--All field measurements and sample collection by Nevada Division of Environmental Protection. Chemical analyses for period August 1966 - December 1973, and microbiological analyses for entire period of record, by Nevada Bureau of Laboratories and Research.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 355 micromhos Sept. 19, 1977; minimum, 84 micromhos May 21, 1975.
WATER TEMPERATURES: Maximum, 22.0°C July 29, 1971; minimum, freezing point Jan. 5, Dec. 16, 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT											
15...	1045	E518	218	7.9	11.0	4.2	--	38	630	B30	--
27...	1105	E542	219	7.5	7.0	7.4	--	--	530	B30	B40
NOV											
10...	1115	E436	228	8.7	7.0	3.9	--	15	B160	<2	--
24...	1055	E486	225	7.6	--	3.9	--	14	--	B10	B90
DEC											
16...	1010	E404	205	8.6	1.5	4.3	--	--	B120	<2	--
28...	1035	E373	205	8.0	2.0	4.4	--	9	440	<10	--
JAN											
11...	1105	E450	211	7.7	1.0	4.8	--	22	700	<10	<10
25...	1105	E474	233	8.6	4.0	6.8	--	13	400	<2	--
MAR											
01...	1110	E485	261	8.4	3.5	5.8	--	11	--	<10	<10
14...	1120	E419	228	8.5	3.5	2.4	--	10	260	<2	--
31...	1030	E317	225	8.5	4.5	6.8	--	12	--	B4	B16
APR											
11...	1105	E212	236	8.7	10.5	7.5	--	17	--	B14	54
26...	1115	E642	--	8.1	14.0	8.8	--	15	--	<10	B110
MAY											
17...	1145	E794	316	8.3	9.5	8.3	9.6	11	--	<10	B60
JUN											
01...	1145	E511	334	8.1	21.0	14	--	21	--	B620	330
13...	1115	E566	331	8.4	19.0	13	--	21	--	B100	B600
27...	1025	E206	278	7.4	22.0	16	--	18	--	210	550
JUL											
12...	1415	E128	288	8.3	23.0	12	--	27	800	B20	B180
25...	1030	E182	271	7.5	21.0	9.6	--	16	--	B20	B100
AUG											
16...	1115	E133	268	7.3	20.5	12	6.2	14	--	B20	B150
29...	1030	E143	284	7.7	20.5	10	--	18	--	B10	B50
SEP											
19...	1120	E58	355	7.6	15.5	3.6	--	17	--	<100	B200

B: NON-IDEAL COLONY COUNT.
E: ESTIMATED.

10350050 TRUCKEE RIVER AT LOCKWOOD, NV

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD-NESS (CA,MG) (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT											
15...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	71	17	18	6.2	6.4	16	16	.8	3.1	3.2	87
24...	--	--	--	--	--	--	--	--	--	--	--
DEC											
16...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	68	17	17	6.2	6.2	23	22	1.2	3.8	3.4	99
14...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17...	78	18	19	7.6	7.3	34	35	1.7	4.6	4.5	120
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	86	20	22	8.0	7.5	21	20	.9	4.3	4.3	110
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)
OCT											
15...	--	--	--	--	--	--	--	13	.31	.01	.32
27...	--	--	--	--	--	--	--	18	1.5	.00	.02
NOV											
10...	0	16	13	18	133	134	E157	3	.25	.02	.60
24...	--	--	--	--	--	--	--	8	.30	.01	.54
DEC											
16...	--	--	--	--	--	--	--	5	.27	.02	.58
28...	--	--	--	--	--	--	--	4	.30	.01	.58
JAN											
11...	--	--	--	--	--	--	--	8	.39	.02	.22
25...	--	--	--	--	--	--	--	11	.32	.03	.71
MAR											
01...	0	20	17	20	142	154	E186	5	.35	.01	.92
14...	--	--	--	--	--	--	--	8	.23	.02	.84
31...	--	--	--	--	--	--	--	2	.95	.01	.22
APR											
11...	--	--	--	--	--	--	--	23	.18	.02	1.4
26...	--	--	--	--	--	--	--	7	.90	.00	.11
MAY											
17...	0	24	21	18	199	188	E427	15	.66	.01	.93
JUN											
01...	--	--	--	--	--	--	--	15	.54	.11	1.7
13...	--	--	--	--	--	--	--	36	.58	.10	1.5
27...	--	--	--	--	--	--	--	50	.43	.12	1.1
JUL											
12...	--	--	--	--	--	--	--	46	.73	.09	.72
25...	--	--	--	--	--	--	--	26	.42	.17	1.5
AUG											
16...	0	22	10	19	158	159	E56.5	52	.57	.22	1.3
29...	--	--	--	--	--	--	--	7	.54	.19	2.0
SEP											
19...	--	--	--	--	--	--	--	8	.8	.20	3.8

E: ESTIMATED.

10350050 TRUCKEE RIVER AT LOCKWOOD, NV

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	CHLOR-A PHYTOPLANKTON CHROMO SPECT. (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO SPECT. (UG/L)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
OCT											
15...	1.1	1.7	.27	--	2.7	3.60	.045	--	--	--	--
27...	.03	1.6	.48	--	3.8	--	--	--	--	--	--
NOV											
10...	.34	1.2	.47	.41	2.3	2.81	.000	--	--	--	--
24...	.14	.99	.22	--	1.3	--	--	--	--	--	--
DEC											
16...	1.1	2.0	.27	--	--	2.00	.000	--	--	--	--
28...	.30	1.2	.17	--	1.4	--	--	--	--	--	--
JAN											
11...	.53	1.2	.27	--	2.0	--	--	--	--	--	--
25...	1.7	2.8	.34	--	--	--	--	.86	.856	--	--
MAR											
01...	.8	2.1	.37	.34	3.0	--	--	--	--	.093	.019
14...	.3	1.4	.32	--	1.8	--	--	--	--	--	--
31...	1.2	2.4	.39	--	2.5	--	--	--	--	--	--
APR											
11...	.2	1.8	.61	--	4.6	--	--	--	--	--	--
26...	1.6	2.6	.98	--	5.2	--	--	--	--	--	--
MAY											
17...	.3	1.9	.55	.44	6.3	--	--	--	--	.028	.002
JUN											
01...	.8	3.2	.97	--	10	--	--	--	--	--	--
13...	.5	2.7	.79	--	6.0	--	--	--	--	.095	.001
27...	.4	2.1	.71	--	5.4	--	--	--	--	--	--
JUL											
12...	.6	2.1	.68	--	4.0	--	--	--	--	--	--
25...	.4	2.5	.97	--	4.0	--	--	--	--	--	--
AUG											
16...	.4	2.5	.99	.84	3.9	--	--	--	--	.077	.004
29...	.00	2.7	.80	--	4.2	--	--	--	--	--	--
SEP											
19...	.00	3.0	6.3	--	4.3	--	--	--	--	--	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT							
15...	1045	11	0	<10	0	20	450
NOV							
10...	1115	11	0	<10	0	<10	190
DEC							
16...	1010	12	0	<10	0	<10	280
JAN							
11...	1105	11	0	<10	0	10	430
MAR							
01...	1110	12	0	<10	0	50	410
14...	1120	--	0	<10	0	50	380
APR							
11...	1105	13	0	<10	10	10	700
MAY							
17...	1145	28	0	<10	0	20	370
JUN							
13...	1115	25	100	<10	0	50	960
JUL							
12...	1415	21	0	<10	0	40	1000
AUG							
16...	1115	6	100	<10	10	20	600
SEP							
19...	1120	9	100	<10	20	10	270

PYRAMID AND WINNEMUCCA LAKES BASIN

10350050 TRUCKEE RIVER AT LOCKWOOD, NV

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 15...	<100	30	.1	0	<10	10
NOV 10...	<100	30	.1	0	<10	0
DEC 16...	<100	30	.3	0	<10	10
JAN 11...	<100	20	.1	0	<10	20
MAR 01...	<100	30	.3	0	<10	30
14...	100	30	--	0	0	20
APR 11...	<100	70	.0	0	<10	20
MAY 17...	<100	60	.0	0	<10	20
JUN 13...	<100	130	1.1	0	<10	30
JUL 12...	<100	110	.1	0	<10	50
AUG 16...	<100	120	.1	0	<10	40
SEP 19...	<100	60	.1	0	<10	40

DATE	TIME	TOTAL PCB (UG/L)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
MAY 17...	1145	.0	.00	.00	.0	.00	.00	.00
AUG 16...	1115	.0	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDO-SULFAN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)
MAY 17...	.05	.00	.00	.00	.00	.00	.00	.00	.00
AUG 16...	.17	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAY 17...	.00	.00	.00	0	.00	.05	.00	.00
AUG 16...	.00	.00	.00	0	.00	.00	.00	.00

10350390 TRUCKEE RIVER ABOVE TRACY, NV

LOCATION.--Lat 39°33'53", long 119°31'15", in NE¼NW¼ sec.33, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank about 1,200 ft (370 m) upstream from Tracy powerplant, about 200 ft (60 m) upstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,120 km²), approximately.

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April 1972 to July 1972, monthly; August 1972 to February 1977, continuous; March 1977 to current year, four times per hour.

INSTRUMENTATION.—Temperature recorder since August 1972.

REMARKS.--Temperature recorder malfunctioned from Oct. 1 to Jan. 14 and Feb. 15 to Mar. 13.

EXTREMES MEASURED FOR PERIOD OF RECORD.—Maximum, 28.0°C June 24, 1977; minimum, freezing point on several days in December 1972, January 1973, January 1974, and on Jan. 1, 1975.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).—
WATER TEMPERATURES: Maximum, 28.0°C June 24; minimum presumably not measured (see "Remarks").

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1							---	---	4.5	4.0	---	---
2							---	---	4.0	3.5	---	---
3							---	---	4.0	3.0	---	---
4							---	---	4.5	4.0	---	---
5							---	---	4.5	4.0	---	---
6							---	---	5.5	4.5	---	---
7							---	---	6.0	5.0	---	---
8							---	---	6.5	6.0	---	---
9							---	---	7.0	5.5	---	---
10							---	---	6.0	5.5	---	---
11							---	---	6.5	5.0	---	---
12							---	---	7.0	5.5	---	---
13							---	---	7.0	6.0	---	---
14							---	---	7.5	6.0	6.0	4.0
15							3.0	2.5	7.5	6.5	6.5	3.5
16							3.0	2.5	---	---	7.0	5.0
17							2.5	2.5	---	---	7.0	4.5
18							3.0	2.5	---	---	8.0	4.0
19							3.0	2.5	---	---	9.5	6.5
20							3.0	3.0	---	---	11.0	7.5
21							3.5	3.0	---	---	11.5	7.5
22							4.5	4.0	---	---	12.5	8.5
23							5.0	4.5	---	---	11.0	7.0
24							5.0	4.0	---	---	9.0	6.5
25							4.0	3.5	---	---	9.5	5.5
26							4.0	3.0	---	---	10.5	6.0
27							4.0	3.5	---	---	11.0	7.5
28							4.0	3.5	---	---	9.0	6.5
29							3.5	3.0	---	---	9.0	5.5
30							3.5	3.0	---	---	8.0	5.0
31							4.0	3.5	---	---	9.0	4.0
MONTH							5.0	2.5	7.5	3.0	12.5	3.5

10350390 TRUCKEE RIVER ABOVE TRACY, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	6.5	15.5	12.5	22.5	17.5	26.0	21.0	25.0	20.5	22.0	16.5
2	10.5	6.5	16.0	11.5	22.0	16.5	24.5	21.0	24.0	20.5	22.5	17.5
3	12.0	7.0	15.0	10.5	23.0	16.0	24.0	20.0	25.0	20.5	23.0	17.5
4	13.5	8.5	16.0	9.5	25.0	17.0	22.5	17.0	24.5	20.5	23.0	17.5
5	15.0	10.5	14.0	9.5	25.5	18.5	23.5	16.5	23.0	19.0	23.0	17.5
6	16.0	12.0	13.0	8.5	25.0	20.0	24.0	16.0	22.0	17.5	23.0	18.0
7	16.0	12.0	11.5	8.5	24.0	20.0	24.5	17.5	23.5	17.5	22.5	18.5
8	14.0	12.0	11.5	9.0	21.5	18.5	24.5	18.5	24.0	17.0	22.0	18.5
9	14.0	11.0	10.5	9.0	18.5	16.0	24.0	18.5	24.0	18.0	21.5	17.5
10	14.0	9.0	12.5	9.0	20.0	15.5	25.0	17.5	24.5	18.5	22.5	18.0
11	14.5	9.5	12.5	9.0	22.0	16.5	26.0	18.5	25.0	19.5	22.0	18.0
12	16.0	9.5	13.5	9.5	23.0	17.0	25.0	19.5	24.5	20.0	21.5	17.0
13	15.5	11.0	16.0	10.5	23.5	17.0	25.5	18.5	24.0	20.5	21.0	17.0
14	16.0	10.0	17.0	13.0	24.0	16.5	26.0	19.5	25.0	20.0	20.5	16.5
15	16.5	10.0	15.5	11.5	24.5	17.5	26.0	20.0	24.5	19.0	19.0	15.0
16	17.5	12.0	14.0	9.5	24.5	18.0	26.5	20.5	24.0	18.5	17.0	13.0
17	17.0	13.0	12.5	9.0	22.0	17.5	25.5	20.5	23.5	20.0	15.5	12.0
18	16.5	12.5	13.0	9.0	23.0	16.5	25.0	20.5	24.0	19.5	17.0	13.0
19	16.0	11.0	16.5	9.5	23.0	17.0	25.0	19.0	26.0	20.0	16.5	14.0
20	16.0	12.0	19.5	12.5	22.5	18.0	25.0	19.0	26.5	21.0	16.5	14.0
21	16.0	13.0	20.0	14.0	24.0	18.0	24.5	20.0	26.5	21.0	16.5	14.0
22	17.0	13.0	16.5	12.5	26.0	20.5	25.0	20.5	25.0	20.5	16.5	14.0
23	18.0	14.0	14.0	12.0	27.0	20.0	24.5	19.0	24.0	20.0	16.5	13.5
24	18.0	14.0	14.0	10.0	28.0	21.0	24.0	19.5	22.0	18.0	17.0	14.0
25	17.5	14.0	16.0	10.5	27.0	21.0	24.0	18.5	20.0	17.0	18.0	14.5
26	17.0	11.5	17.0	11.5	27.0	21.0	24.5	17.5	21.0	16.5	19.5	16.0
27	17.0	12.5	17.5	12.0	27.5	21.5	24.5	18.0	21.0	16.0	19.5	16.0
28	18.5	14.0	19.0	12.0	27.5	22.0	24.5	19.0	23.0	16.5	19.0	15.5
29	17.5	14.0	21.0	12.5	27.0	21.5	25.0	18.5	23.5	18.0	16.0	13.5
30	16.0	14.0	23.0	14.5	26.0	21.0	25.5	19.0	23.0	18.0	16.0	12.0
31	---	---	24.5	16.5	---	---	25.0	20.5	21.5	17.0	---	---
MONTH	18.5	6.5	24.5	8.5	28.0	15.5	26.5	16.0	26.5	16.0	23.0	12.0
YEAR	*28.0	2.5										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

10350400 TRUCKEE RIVER BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02", in NW¼NE¼ sec.33, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank on upstream side of bridge, 200 ft (60 m) downstream from Tracy powerplant, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi^2 (4,120 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft (1,291.788 m) above mean sea level (levels by S.E.&A. Engineers).

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs and other lakes, powerplants, and many diversions for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,660 ft^3/s (104 m^3/s) May 15, 1975, gage height, 8.75 ft (2.667 m); minimum, 39 ft^3/s (1.10 m^3/s) Sept. 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 706 ft^3/s (20.0 m^3/s) Feb. 21, gage height, 5.72 ft (1.743 m); minimum, 39 ft^3/s (1.10 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	429	399	456	460	385	318	175	223	214	176	172
2	579	429	426	454	442	387	342	200	230	222	168	173
3	544	432	426	517	449	407	332	215	237	236	167	185
4	490	419	429	454	455	391	338	210	206	235	176	199
5	472	388	429	483	452	394	353	205	241	217	158	195
6	471	392	432	463	454	384	388	270	248	190	191	165
7	517	406	408	420	422	379	368	290	252	164	192	140
8	572	405	399	440	424	373	349	320	300	159	184	143
9	505	405	415	424	463	371	305	340	288	157	180	136
10	453	396	442	421	413	415	216	300	419	194	163	145
11	450	405	443	458	389	396	174	284	364	184	196	155
12	429	406	436	471	422	392	143	335	318	187	228	145
13	393	405	420	448	441	388	135	359	256	164	160	235
14	422	408	443	446	398	372	115	349	241	146	226	185
15	465	453	446	461	386	398	105	345	245	143	180	185
16	525	413	422	442	406	418	100	354	258	153	160	141
17	538	384	426	429	405	419	98	345	224	186	168	129
18	470	414	417	442	385	410	98	345	279	149	174	160
19	480	426	428	442	421	374	115	354	341	147	178	121
20	497	434	398	421	388	378	130	335	363	150	181	105
21	507	433	413	441	489	378	150	313	360	147	192	79
22	506	432	413	504	611	350	145	340	367	151	157	79
23	519	425	419	492	460	354	175	331	262	151	158	78
24	503	416	451	436	448	361	195	309	232	167	177	74
25	453	388	442	473	416	335	210	280	240	151	179	76
26	469	423	449	456	405	324	185	272	268	143	188	62
27	481	420	410	444	400	292	155	296	254	148	201	60
28	526	406	411	454	376	287	165	288	241	144	197	61
29	535	405	420	466	---	301	160	199	238	152	170	59
30	511	411	434	482	---	318	155	199	192	168	163	66
31	501	---	477	443	---	315	---	193	---	161	173	---
TOTAL	15309	12408	13223	14083	12080	11446	6217	8950	8187	5280	5561	3908
MEAN	494	414	427	454	431	369	207	289	273	170	179	130
MAX	579	453	477	517	611	419	388	359	419	236	228	235
MIN	393	384	398	420	376	287	98	175	192	143	157	59
AC-FT	30370	24610	26230	27930	23960	22700	12330	17750	16240	10470	11030	7750

CAL YR 1976 TOTAL 206148 MEAN 563 MAX 961 MIN 368 AC-FT 408900
WTR YR 1977 TOTAL 116652 MEAN 320 MAX 611 MIN 59 AC-FT 231400

10350400 TRUCKEE RIVER BELOW TRACY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April to September 1972, monthly; October 1972 to September 1975, continuous; October 1975 to March 1976, monthly; April 1976 to March 1977, continuous; April to September 1977, four times per hour.

INSTRUMENTATION.--Temperature recorder since October 1972.

REMARKS.--Temperature recorder malfunctioned from Oct. 1 to Jan. 5.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 1977; minimum, freezing point on several days in January 1973 and January 1974.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 1977; minimum, presumably not measured (see "Remarks").

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1							---	---	5.5	4.5	7.0	6.5
2							---	---	5.0	4.5	7.0	6.5
3							---	---	4.5	4.0	7.0	6.5
4							---	---	4.5	4.5	8.5	6.5
5							---	---	4.5	4.0	9.0	7.5
6							3.0	3.0	5.5	4.0	9.0	8.5
7							3.0	2.0	6.0	5.5	9.5	8.5
8							2.5	2.0	6.0	6.0	11.5	9.0
9							2.0	2.0	7.0	6.0	10.5	8.5
10							2.5	2.0	7.0	6.0	9.5	8.0
11							2.5	2.0	7.5	6.5	8.5	7.5
12							3.0	2.5	7.5	7.0	10.0	8.0
13							3.0	3.0	7.5	7.5	8.0	6.0
14							3.5	3.0	8.0	7.0	6.0	4.0
15							3.5	3.0	8.0	7.5	6.0	4.5
16							3.0	3.0	9.5	7.5	6.0	6.0
17							3.0	3.0	10.0	9.0	6.5	5.5
18							3.0	3.0	9.0	8.5	8.0	5.0
19							3.5	3.0	9.0	8.0	9.5	7.5
20							3.5	3.5	9.0	8.0	10.5	8.5
21							4.5	3.5	8.0	7.5	11.5	9.5
22							5.0	4.5	7.0	6.0	14.0	10.5
23							5.5	5.0	6.0	6.0	12.0	9.0
24							5.5	5.0	7.0	6.0	10.5	8.5
25							5.0	4.5	7.0	6.0	11.0	8.5
26							4.5	4.5	7.5	6.0	12.0	8.5
27							4.5	4.5	8.0	7.0	11.5	9.0
28							4.5	4.0	8.0	7.0	11.5	8.0
29							4.5	4.5	---	---	11.5	8.5
30							4.5	4.0	---	---	11.0	8.0
31							5.0	4.0	---	---	11.5	7.0
MONTH							5.5	2.0	10.0	4.0	14.0	4.0

10350400 TRUCKEE RIVER BELOW TRACY, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	8.0	24.0	17.5	27.5	19.5	26.0	21.0	25.0	20.5	22.0	17.0
2	12.0	9.0	21.5	16.0	27.5	19.0	24.5	21.0	24.0	21.0	22.5	18.0
3	14.5	8.5	21.0	17.0	27.5	17.5	24.0	20.0	25.0	21.0	23.0	16.0
4	16.5	11.0	21.5	15.0	32.0	20.0	22.5	17.5	24.5	21.0	23.0	18.0
5	16.0	12.5	20.0	13.0	29.5	19.5	23.5	16.5	23.0	19.5	23.0	18.0
6	18.0	14.0	17.5	11.0	30.5	21.0	24.0	16.5	22.0	18.0	23.0	18.5
7	18.5	14.0	14.5	9.0	29.0	22.0	24.5	18.0	23.0	18.0	22.5	19.0
8	15.0	12.0	12.0	9.0	26.0	20.5	24.5	19.0	24.0	17.5	22.0	19.0
9	15.0	11.5	12.5	9.5	24.5	16.5	24.0	19.0	24.0	16.0	21.5	18.5
10	15.0	10.0	14.5	9.0	20.0	15.5	24.5	18.0	24.5	19.0	22.5	18.5
11	15.0	10.5	14.0	9.5	22.5	16.5	25.5	19.0	25.0	20.0	22.0	19.0
12	20.5	12.5	14.5	12.0	23.0	17.0	25.0	20.0	24.5	20.5	21.5	17.5
13	21.0	14.5	17.0	11.0	23.5	17.0	25.0	19.0	24.0	20.5	21.5	17.0
14	21.0	13.0	17.5	13.5	24.0	17.0	25.5	20.0	25.0	20.0	20.5	17.0
15	24.0	15.0	16.0	12.0	24.5	17.5	26.0	20.5	24.5	19.0	19.0	15.5
16	25.0	21.0	15.5	10.5	25.0	18.0	26.0	21.0	24.0	19.0	17.0	13.0
17	21.0	19.5	14.5	9.5	22.5	18.0	25.5	21.0	23.5	20.0	15.5	12.5
18	24.0	19.5	15.0	9.0	23.0	17.0	25.0	20.5	24.0	20.0	17.0	13.5
19	26.5	---	17.5	10.0	23.0	17.0	25.0	19.5	26.0	20.5	16.5	14.0
20	28.0	27.0	22.0	13.0	22.5	18.0	25.0	19.5	26.5	21.5	16.0	14.0
21	27.5	24.5	21.0	15.5	24.5	18.0	24.5	20.5	26.5	21.5	16.5	14.0
22	30.0	25.5	17.5	13.0	29.0	21.0	24.5	20.5	25.0	21.0	16.5	14.0
23	29.5	26.0	15.0	12.5	32.0	23.5	24.5	19.5	24.0	20.5	16.5	13.0
24	24.5	18.0	17.5	11.0	33.5	24.5	23.5	20.0	22.5	18.5	17.0	13.5
25	29.0	19.5	20.0	12.5	31.5	25.0	24.0	19.0	20.5	17.0	18.0	14.5
26	25.0	18.0	18.0	13.0	32.0	24.0	24.0	18.0	21.0	16.5	20.0	15.5
27	28.5	18.0	18.5	12.5	32.5	24.0	24.5	18.5	21.0	16.5	19.5	16.0
28	28.5	19.0	19.0	12.5	33.5	27.0	24.5	19.5	23.0	17.0	18.5	15.5
29	28.0	18.5	21.0	13.0	33.0	25.0	24.5	19.0	23.5	18.5	16.0	13.0
30	26.5	21.0	23.0	15.0	27.0	23.5	25.5	20.0	23.0	18.5	16.0	12.0
31	---	---	29.5	17.0	---	---	25.0	21.0	21.5	17.0	---	---
MONTH	30.0	8.0	29.5	9.0	33.5	15.5	26.0	16.5	26.5	16.5	23.0	12.0
YEAR	34.5	2.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

10350405 TRUCKEE RIVER RIGHT BANK BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02",, in NW¼NE¼ sec.33, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank 200 ft (60 m) downstream from Tracy powerplant, about 1,500 ft (460 m) downstream from cooling pond outlet, and 13 mi (21 km) east of Sparks.

DRAINAGE AREA.--1,590 mi² (4,120 km²).

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April 1972 to July 1975, continuous; August 1975 to March 1976, monthly; April 1976 to February 1977, continuous; March 1977 to current year, four times per hour.

INSTRUMENTATION.--Temperature recorder since April 1972.

REMARKS.--Temperature recorder malfunctioned from Oct. 1 to Feb. 10.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 29, 1977; minimum, freezing point Jan. 5-9, 1973, Jan. 2, 1974.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 33.5°C June 24, 28, 29; minimum, presumably not measured (see "Remarks").

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	7.0	6.0
2									---	---	7.0	6.0
3									---	---	6.5	6.0
4									---	---	8.5	6.0
5									---	---	10.0	7.0
6									---	---	11.0	7.5
7									---	---	10.5	7.5
8									---	---	12.5	8.0
9									---	---	12.0	10.5
10									---	---	11.5	9.5
11									7.0	6.0	11.0	10.0
12									7.0	7.0	12.0	10.5
13									8.0	6.5	12.0	10.0
14									7.5	6.5	12.0	10.0
15									7.5	7.0	12.0	9.5
16									10.0	7.0	12.5	10.0
17									9.5	8.5	13.0	10.0
18									9.0	8.0	13.5	10.0
19									9.0	8.0	15.0	12.5
20									8.5	7.0	16.5	13.0
21									7.0	7.0	16.0	13.0
22									7.0	5.0	17.5	13.5
23									5.5	5.5	16.5	12.5
24									6.5	5.5	15.0	12.0
25									7.5	6.0	15.0	12.0
26									6.5	6.0	16.5	12.0
27									7.0	6.5	14.5	9.5
28									7.0	6.5	15.5	9.0
29									---	---	15.0	11.0
30									---	---	14.5	11.0
31									---	---	16.0	10.5
MONTH									10.0	5.0	17.5	6.0

10350405 TRUCKEE RIVER RIGHT BANK BELOW TRACY, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	11.0	22.0	17.0	27.0	20.0	26.0	21.5	---	---	21.0	16.5
2	16.0	12.0	23.0	17.0	27.5	19.5	24.5	21.5	---	---	22.0	18.0
3	17.0	9.5	22.0	18.5	28.0	18.5	24.0	20.5	---	---	22.0	18.5
4	19.0	13.0	22.5	17.0	31.5	20.5	22.0	17.5	---	---	22.5	18.5
5	21.0	15.0	20.5	13.0	29.5	20.5	23.0	17.0	---	---	22.0	18.5
6	21.5	16.0	19.5	11.5	31.0	22.0	23.5	17.0	---	---	22.5	19.0
7	22.5	14.5	17.5	11.0	29.5	22.5	23.0	18.5	---	---	21.5	19.0
8	20.0	14.0	12.0	9.0	27.0	21.0	24.0	19.5	---	---	21.5	19.5
9	20.0	13.5	17.0	9.5	25.0	18.5	22.5	20.0	---	---	21.0	19.0
10	15.5	12.0	18.5	10.0	20.5	16.0	24.5	18.5	---	---	21.0	19.5
11	17.0	12.0	18.5	11.5	23.0	16.5	25.0	19.5	---	---	22.0	18.5
12	22.5	13.5	18.5	12.0	23.0	17.0	24.5	20.5	---	---	21.0	18.0
13	22.0	15.0	21.5	12.5	23.5	17.0	24.5	19.5	---	---	21.0	16.5
14	22.5	13.5	18.5	15.0	24.0	17.0	23.5	20.5	---	---	20.5	16.5
15	24.0	14.0	16.5	13.0	24.5	18.0	24.0	21.0	---	---	19.0	16.0
16	24.5	21.0	20.5	13.0	25.0	18.5	25.5	22.0	---	---	16.0	12.5
17	22.5	16.0	18.5	11.5	22.5	18.0	25.0	21.0	---	---	14.5	12.0
18	24.5	16.0	19.5	10.0	23.0	17.0	23.5	21.5	24.0	22.5	16.0	13.5
19	22.5	17.0	22.0	11.5	23.0	17.0	---	---	25.5	20.5	16.0	13.5
20	19.0	15.5	25.0	13.5	22.5	18.0	---	---	25.5	22.0	16.0	12.5
21	19.5	15.5	21.5	16.0	24.5	18.5	---	---	26.0	22.0	16.0	12.5
22	20.0	17.5	18.5	13.0	31.0	21.5	---	---	24.5	20.5	14.0	12.5
23	19.0	17.0	19.5	12.5	32.5	24.5	---	---	23.5	20.0	15.5	12.0
24	20.5	17.5	20.5	12.5	33.5	25.5	---	---	22.0	18.5	16.0	13.0
25	24.0	18.5	22.0	13.0	32.5	26.0	---	---	20.5	17.5	16.0	12.5
26	24.5	19.0	19.5	14.0	33.0	25.0	---	---	21.0	16.0	16.0	14.0
27	23.0	17.0	19.0	13.5	33.0	25.5	---	---	20.5	16.0	16.0	14.5
28	24.5	18.5	19.0	13.0	33.5	27.5	---	---	22.0	16.0	15.5	14.0
29	22.0	18.0	20.5	13.5	33.5	26.5	---	---	22.5	19.0	15.5	12.5
30	21.0	20.0	22.5	15.5	27.0	24.0	---	---	22.0	19.0	15.0	12.0
31	---	---	29.5	17.5	---	---	---	---	21.0	17.5	---	---
MONTH	24.5	9.5	29.5	9.0	33.5	16.0	26.0	17.0	26.0	16.0	22.5	12.0
YEAR	33.5	5.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

10350500 TRUCKEE RIVER AT CLARK, NV

LOCATION.--Lat 39°33'5", long 119°29'02", in SE¼SW¼ sec.26, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on right bank about 30 ft (10 m) downstream from Clark Bridge, about 2 mi (3 km) downstream from cooling pond outlet at Tracy powerplant, and approximately 0.2 mi (0.3 km) west of Clark.

DRAINAGE AREA.--1,600 mi² (4,100 km²), approximately.

PERIOD OF RECORD.--April 1972 to current year.
WATER TEMPERATURES: April and May 1972, monthly; June 1972 to current year, continuous.

INSTRUMENTATION.--Temperature recorder since June 1972.

REMARKS.--Temperature recorder malfunctioned from Nov. 26 to Jan. 21 and June 23 to July 14.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 29.5°C June 4, 1977 (temperature presumably higher during period of recorder malfunction in June 1977); minimum, freezing point on several days in January 1973 and January 1974.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum and minimum presumably not measured (see "Remarks").

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.0	15.0	9.5	8.0			---	---	5.0	4.5	6.0	5.0
2	15.0	14.0	10.0	8.5			---	---	5.0	4.5	6.0	5.0
3	15.0	13.5	9.5	8.5			---	---	4.5	4.5	5.0	5.0
4	15.5	14.0	9.5	8.5			---	---	4.5	4.5	8.0	5.0
5	15.0	14.0	10.0	8.5			---	---	4.5	4.5	8.0	5.5
6	16.0	14.5	10.0	8.5			---	---	5.0	4.5	7.5	6.5
7	16.0	14.5	10.0	8.5			---	---	5.5	4.5	8.5	6.0
8	16.0	14.0	9.5	8.5			---	---	6.0	5.5	10.0	6.5
9	16.5	14.5	9.5	8.5			---	---	7.0	5.5	10.0	7.5
10	16.0	14.5	9.0	8.5			---	---	6.5	6.0	9.5	7.0
11	15.0	13.5	8.5	8.0			---	---	7.0	5.5	9.0	7.0
12	14.5	13.0	8.5	7.5			---	---	7.0	6.0	10.0	7.5
13	14.0	12.5	8.0	7.5			---	---	7.0	6.0	8.5	6.5
14	14.5	12.5	8.0	7.5			---	---	7.0	6.0	8.0	5.5
15	14.5	13.0	9.0	8.0			---	---	7.5	6.0	7.5	6.0
16	13.0	12.5	9.5	8.5			---	---	8.5	6.5	8.0	7.0
17	13.0	12.0	9.5	8.5			---	---	9.0	7.5	8.0	6.5
18	12.0	11.0	9.5	8.5			---	---	8.0	7.0	9.0	6.5
19	11.5	10.0	8.5	8.0			---	---	8.0	7.0	11.0	8.5
20	11.5	10.5	8.5	7.5			---	---	7.0	6.0	12.0	9.0
21	11.5	10.0	8.0	7.5			---	---	6.0	6.0	12.5	9.0
22	11.5	10.5	8.0	7.5			---	---	6.0	5.0	13.5	10.0
23	12.0	11.0	7.5	7.0			5.5	5.0	5.5	5.0	13.0	9.5
24	11.5	10.0	7.0	6.5			5.5	5.0	6.0	5.0	11.0	8.5
25	11.0	10.0	7.0	6.5			5.0	4.5	6.0	5.0	11.0	8.5
26	10.0	9.5	6.5	5.5			4.5	4.5	6.5	5.0	12.0	8.5
27	9.5	8.5	---	---			5.0	4.5	6.5	5.5	11.0	8.0
28	9.5	8.5	---	---			5.0	4.5	7.0	5.5	11.0	6.5
29	9.0	8.5	---	---			4.5	4.5	---	---	11.0	7.5
30	9.5	8.5	---	---			4.5	4.5	---	---	10.5	8.0
31	9.5	8.5	---	---			5.0	4.5	---	---	11.0	7.5
MONTH	16.5	8.5	10.0	5.5			5.5	4.5	9.0	4.5	13.5	5.0

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	7.5	22.5	17.0	25.5	19.5	---	---	24.5	22.0	21.5	18.0
2	13.0	10.0	20.5	16.5	26.0	18.5	---	---	23.0	21.5	22.0	19.0
3	15.0	9.0	20.0	16.5	27.0	18.0	---	---	25.0	21.5	22.0	19.0
4	17.0	11.5	21.0	15.0	29.5	20.0	---	---	24.0	21.5	22.0	19.0
5	18.5	14.0	20.0	13.0	28.0	21.5	---	---	22.0	20.0	0.0	20.0
6	19.5	15.0	17.0	11.5	29.0	21.5	---	---	21.0	19.5	23.0	20.0
7	20.0	14.5	17.0	11.5	28.0	22.0	---	---	22.5	19.0	23.0	20.0
8	17.5	14.0	11.5	10.0	26.0	20.0	---	---	22.5	18.5	22.5	20.0
9	17.5	12.5	13.0	10.0	23.5	19.5	---	---	23.0	19.5	22.0	19.5
10	14.5	11.5	16.0	10.0	20.5	17.0	---	---	23.5	20.0	23.0	20.0
11	16.0	11.5	16.0	11.5	22.0	17.0	---	---	24.5	20.5	23.0	20.0
12	20.0	12.5	16.5	12.0	22.5	17.5	---	---	24.0	21.0	22.0	18.5
13	20.0	15.0	18.5	12.5	22.0	17.5	---	---	23.0	21.5	20.5	18.0
14	19.5	13.5	18.5	14.5	23.0	17.0	---	---	24.5	20.5	20.0	18.0
15	21.5	13.5	16.5	14.5	24.0	18.5	26.0	21.5	24.0	20.0	19.0	17.0
16	24.5	19.0	17.0	12.0	24.5	19.0	25.5	22.0	23.5	20.0	17.5	14.5
17	21.5	16.5	16.5	11.5	23.0	18.5	25.0	21.5	22.5	21.0	15.5	13.5
18	23.0	16.0	16.5	10.5	22.0	18.0	25.0	21.0	23.5	20.5	17.0	15.0
19	23.5	18.5	19.5	11.5	22.0	18.0	24.0	20.0	25.5	21.5	17.0	15.0
20	26.0	18.5	22.0	14.0	22.0	18.0	25.0	20.0	25.5	22.5	18.0	14.5
21	25.0	19.0	20.5	15.5	24.0	18.5	24.0	21.0	25.5	22.5	18.0	14.5
22	25.0	21.0	19.0	14.0	29.0	20.5	23.5	21.5	25.0	21.5	17.5	14.0
23	28.0	21.0	16.5	12.5	---	---	24.0	20.5	24.0	21.0	18.0	13.5
24	24.5	18.0	18.0	12.5	---	---	23.0	20.5	21.5	19.0	18.5	14.5
25	22.5	18.0	19.5	13.0	---	---	23.5	19.5	20.5	18.0	19.0	14.5
26	22.5	17.5	18.5	14.0	---	---	23.0	19.0	20.0	17.0	20.0	15.5
27	25.0	16.5	18.5	13.5	---	---	23.5	19.5	20.0	17.0	20.0	16.0
28	25.0	17.0	19.0	13.0	---	---	24.0	20.0	21.5	17.5	18.5	16.0
29	25.5	18.0	19.0	14.0	---	---	24.0	20.0	23.0	19.5	17.5	15.5
30	22.5	21.0	21.0	16.5	---	---	24.5	21.0	22.5	19.5	16.0	13.5
31	---	---	26.0	18.0	---	---	24.5	21.5	21.0	18.5	---	---
MONTH	28.0	7.5	26.0	10.0	29.5	17.0	26.0	19.0	25.5	17.0	23.0	13.5
YEAR	29.5	4.5										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

OCATION.--Lat 39°36'25", long 119°18'35", in NW¼NE¼ sec.17, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102,on left bank at upstream end of Tunnel No. 3 and 2 mi (3 km) southwest of Wadsworth.

ERIOD OF RECORD.--October 1966 to current year.

AGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map. Since Feb. 13, 1967, auxiliary water-stage recorder on left bank 0.3 mi (0.5 km) downstream from base gage.

EMARKS.--Records fair. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

VERAGE DISCHARGE.--11 years, 272 ft^3/s (7.703 m^3/s), 197,100 acre-ft/yr (243 hm^3/yr).

XTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft^3/s (27.0 m^3/s) June 10, 1970; no flow at times in some years.

EVISIONS.--Revised daily discharges in cubic feet per second for the period Dec. 25-30, 1974, are given below. These figures supersede those published in the 1975 report.

ec. 25. 544
26. 531

Dec. 27. 525
28. 522

Dec. 29. 506
30. 514

Month	Total	Mean	Max	Min	Ac-ft
ecember 1974	14,664	473	547	368	29,090
al Yr 1974	68,049.7	186	547	0	135,000
tr Yr 1975	96,498.39	264	547	0	191,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	396	323	361	357	392	369	292	83	140	157	120	137
2	380	324	368	362	382	365	316	155	155	174	134	113
3	360	386	375	358	380	371	310	176	187	191	107	118
4	337	381	375	352	381	388	308	186	156	193	121	134
5	313	363	373	363	381	370	314	175	165	187	132	144
6	311	349	371	358	384	376	319	189	199	162	115	127
7	327	370	361	340	368	374	340	232	187	141	135	103
8	355	363	343	348	356	373	330	209	239	121	117	95
9	340	361	360	350	363	356	344	243	224	114	60	84
10	293	357	367	350	372	417	310	298	323	124	112	82
11	287	364	371	360	314	394	260	274	362	145	138	94
12	274	361	368	367	339	384	210	283	315	148	112	93
13	237	362	359	363	370	384	170	343	261	133	121	170
4	254	363	364	361	346	370	161	341	213	119	161	148
5	280	378	363	372	335	362	166	331	230	109	165	198
6	339	361	358	368	334	402	129	330	217	104	137	126
7	358	334	351	360	367	389	113	328	198	127	119	109
8	329	362	353	365	324	395	118	322	230	136	139	130
9	312	378	353	367	338	354	114	311	259	108	130	115
0	319	375	344	358	297	361	81	309	329	108	133	88
1	345	374	338	363	205	354	68	270	309	104	141	65
2	337	371	347	387	484	319	68	277	327	105	130	68
3	359	367	347	391	463	317	71	284	236	96	123	69
4	345	368	365	382	399	296	77	264	197	94	130	60
5	319	338	364	389	391	298	62	225	180	110	141	62
6	307	358	367	397	365	306	112	211	220	104	146	49
7	334	370	346	381	378	282	64	231	215	98	145	33
8	375	360	337	393	346	253	57	240	194	101	159	43
9	390	358	340	398	---	243	58	159	195	96	147	.00
0	384	363	352	401	---	305	55	140	163	101	122	66
1	369	---	359	390	---	292	---	130	---	100	136	---
TAL	10265	10842	11100	11451	10154	10819	5397	7549	6825	3910	4028	2923.00
N	331	361	358	369	363	349	180	244	228	126	130	97.4
X	396	386	375	401	484	417	344	343	362	193	165	198
N	237	323	337	340	205	243	55	83	140	94	60	.00
-FT	20360	21510	22020	22710	20140	21460	10700	14970	13540	7760	7990	5800

L YR 1976 TOTAL 96067.00 MEAN 262 MAX 610 MIN .00 AC-FT 190500
R YR 1977 TOTAL 95263.00 MEAN 261 MAX 484 MIN .00 AC-FT 189000

10351350 FERNLEY A DRAIN NEAR FERNLEY, NV

LOCATION.--Lat 39°36'00", long 119°12'10", in SW¼NW¼ sec.17, T.20 N., R.25 E., Lyon County, Hydrologic Unit 16050104, on right bank 2.6 mi (4.2 km) east of Fernley.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,110 ft (1,253 m), from topographic map. Prior to Aug. 13, 1971, water-stage recorder at site 60 ft (18 m) upstream at datum 5.53 ft (1.686 m) higher. Aug. 13, 1971, to Feb. 20, 1973, water-stage recorder at present site at datum 2.89 ft (0.881 m) higher. Feb. 21, 1973 to July 28, 1975, water-stage recorder at present site at datum 2.00 ft (0.070 m) higher.

REMARKS.--Records poor. Flow in canal is return flow from lands irrigated by Truckee Canal and discharges to Fernley State Wildlife Management Area.

AVERAGE DISCHARGE.--9 years, 5.86 ft^3/s (0.166 m^3/s), 4,250 acre-ft/yr (5.24 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, about 60 ft^3/s (1.70 m^3/s) July 21, 1971; minimum daily, 0.28 ft^3/s (0.01 m^3/s) Mar. 19-21, 30, 1977.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.0	3.0	2.1	.70	.53	.30	2.3	.82	5.9	1.7	1.5
2	3.4	3.9	3.0	2.1	.68	.49	.30	1.5	1.7	5.9	1.5	1.5
3	3.1	3.8	2.9	1.9	.66	.48	.32	1.5	2.7	3.3	1.5	1.6
4	2.9	3.8	3.0	1.8	.67	.46	.32	1.8	4.5	4.1	1.4	2.2
5	2.7	3.8	2.9	1.7	.69	.46	.36	1.7	5.2	3.7	1.9	2.3
6	2.8	3.7	2.7	1.7	.70	.42	.40	1.3	3.9	2.2	1.8	7.7
7	2.6	3.7	2.7	1.7	.68	.43	.44	1.7	2.0	2.2	1.5	5.3
8	2.4	3.7	2.7	1.6	.68	.41	.49	1.6	2.3	1.7	1.6	5.5
9	3.1	3.7	2.7	1.6	.64	.42	.52	1.7	3.0	3.0	1.4	7.5
10	5.3	3.7	2.6	1.5	.64	.43	.52	1.1	2.8	4.4	3.3	6.3
11	5.4	3.7	2.5	1.4	.64	.47	.52	1.0	1.6	4.5	4.6	2.5
12	4.4	3.7	2.5	1.4	.63	.38	.53	1.2	1.5	1.8	7.1	2.5
13	5.6	3.7	2.6	1.4	.63	.34	.55	1.0	1.4	1.5	6.0	2.2
14	6.7	3.6	2.4	1.4	.62	.39	.52	.79	1.4	1.3	4.6	2.0
15	5.4	3.5	2.5	1.4	.61	.32	.53	.80	1.3	1.2	6.2	2.2
16	6.4	3.5	2.5	1.3	.59	.33	.56	.87	1.5	1.1	5.1	1.8
17	11	3.5	2.4	1.2	.56	.32	.57	.92	1.7	1.7	3.3	1.6
18	9.8	3.5	2.4	1.1	.56	.30	.61	1.8	1.4	3.9	3.7	1.5
19	13	3.5	2.4	1.1	.55	.28	.63	2.5	2.7	1.7	3.8	1.4
20	17	3.5	2.4	1.1	.54	.28	.63	1.2	1.4	1.9	3.6	1.3
21	14	3.5	2.4	1.1	.58	.28	1.4	1.1	1.3	4.8	2.0	1.3
22	7.6	3.4	2.3	1.1	.52	.30	1.2	1.4	1.2	8.0	4.1	1.2
23	6.0	3.4	2.3	1.0	.51	.32	1.7	1.2	1.2	8.6	2.9	1.2
24	5.6	3.4	2.3	1.0	.50	.30	1.8	.95	1.1	5.3	2.0	1.2
25	5.2	3.3	2.2	.90	.50	.30	1.9	1.4	1.2	4.6	1.7	1.2
26	5.0	3.3	2.2	.90	.49	.30	2.0	3.0	1.8	4.9	1.4	1.1
27	4.8	3.0	2.2	.90	.50	.30	2.5	1.1	4.1	2.7	1.6	1.1
28	4.7	2.8	2.2	.80	.52	.32	3.0	1.1	5.0	4.4	1.9	1.0
29	4.6	2.9	2.2	.80	---	.34	4.0	1.1	4.2	2.8	2.9	1.0
30	4.4	3.0	2.1	.80	---	.28	5.7	1.0	8.7	2.1	1.8	.98
31	4.2	---	2.1	.70	---	.30	---	.81	---	2.0	1.6	---
TOTAL	182.9	105.5	77.3	40.50	16.79	11.28	34.82	42.44	74.62	107.2	89.5	71.68
MEAN	5.90	3.52	2.49	1.31	.60	.36	1.16	1.37	2.49	3.46	2.89	2.39
MAX	17	4.0	3.0	2.1	.70	.53	5.7	3.0	8.7	8.6	7.1	7.7
MIN	2.4	2.8	2.1	.70	.49	.28	.30	.79	.82	1.1	1.4	.98
AC-FT	363	209	153	80	33	22	69	84	148	213	178	142

CAL YR 1976 TOTAL 1549.27 MEAN 4.23 MAX 17 MIN .44 AC-FT 3070
WTR YR 1977 TOTAL 854.53 MEAN 2.34 MAX 17 MIN .28 AC-FT 1690

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION.--Lat 39°32'15", long 119°04'15", in NE¼SW¼ sec.4, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank 0.1 mi (0.2 km) downstream from Hazen check dam and 2.3 mi (3.7 km) southwest of Hazen.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,172.10 ft (1,271.656 m) above mean sea level (Bureau of Reclamation datum). Since Mar. 17, 1972, auxiliary water-stage recorder 20 ft (6 m) upstream from KX lateral diversion canal. Oct. 1, 1967, to Mar. 17, 1972, auxiliary water-stage recorder on right bank approximately 6 mi (10 km) downstream from base gage.

REMARKS.--Records fair. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

AVERAGE DISCHARGE.--10 years, 198 ft³/s (5.607 m³/s), 143,500 acre-ft/yr (177 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft³/s (25.9 m³/s) Feb. 3, 1967; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	331	347	360	393	367	280	4.8	58	58	23	60
2	334	278	352	363	395	376	290	46	72	57	39	66
3	365	331	362	365	388	381	305	49	73	76	51	64
4	344	347	349	361	388	398	294	45	43	106	40	62
5	313	341	350	358	389	384	294	57	63	95	45	64
6	314	329	350	366	393	385	301	26	79	78	40	45
7	318	337	341	363	391	381	315	46	75	33	42	35
8	331	338	327	355	371	380	314	51	104	26	37	27
9	316	338	325	355	368	372	310	86	160	.77	40	23
10	282	337	336	367	384	397	303	226	271	4.5	12	21
11	261	336	344	391	353	408	275	205	345	23	12	25
12	207	338	347	381	341	398	249	193	333	32	13	29
13	209	337	345	378	365	396	225	278	301	47	13	30
14	203	335	338	374	373	387	148	272	191	23	12	32
15	214	332	346	375	348	369	123	272	132	24	12	33
16	203	327	345	380	343	401	157	283	181	34	20	30
17	225	316	337	376	363	402	137	297	145	25	25	25
18	254	321	340	372	355	405	123	306	155	41	28	27
19	189	336	334	375	337	384	114	303	215	35	26	27
20	197	342	344	375	350	372	99	288	314	16	22	20
21	271	367	331	365	201	364	84	242	284	15	24	20
22	305	364	339	380	405	342	50	184	235	23	27	22
23	321	361	339	389	499	328	32	266	179	22	31	22
24	323	363	346	389	412	316	38	261	128	18	35	21
25	311	346	358	380	413	240	57	226	64	15	35	18
26	304	329	359	396	385	305	58	167	71	26	37	15
27	331	359	358	387	385	294	35	163	106	23	36	10
28	362	355	342	383	369	270	7.4	231	92	6.9	40	12
29	395	344	339	390	---	258	4.9	184	84	.00	38	.00
30	370	342	347	395	---	262	3.8	126	102	13	44	15
31	351	---	356	391	---	294	---	105	---	16	55	---
TOTAL	9027	10157	10673	11635	10457	11016	5026.1	5488.8	4655	1012.17	954	900.00
MEAN	291	339	344	375	373	355	168	177	155	32.7	30.8	30.0
MAX	395	367	362	396	499	408	315	306	345	106	55	66
MIN	189	278	325	355	201	240	3.8	4.8	43	.00	12	.00
AC-FT	17910	20150	21170	23080	20740	21850	9970	10890	9230	2010	1890	1790

CAL YR 1976 TOTAL 73202.00 MEAN 200 MAX 563 MIN .00 AC-FT 145200
WTR YR 1977 TOTAL 81001.07 MEAN 222 MAX 499 MIN .00 AC-FT 160700

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV

LOCATION.--Lat 39°35'05", long 119°26'25", in NW¼SE¼ sec.19, T.20 N., R.23 E., Storey County, Hydrologic Unit 16050102, on right bank 1,500 ft (500 m) downstream from Derby Dam, 3.2 mi (5.1 km) downstream from Clark, and 9 mi (14 km) southwest of Wadsworth.

DRAINAGE AREA.--1,670 mi² (4,325 km²).

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,200 ft (1,280 m), from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir.

AVERAGE DISCHARGE.--58 years (1918-57, 1958-77), 332 ft³/s (9.402 m³/s), 240,500 acre-ft/yr (297 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s (521 m³/s) Feb. 1, 1963, gage height, 14.26 ft (4.346 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; no flow Aug. 8-11, 1924, Sept. 1-7, 10, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 229 ft³/s (6.49 m³/s) Feb. 21, gage height, 2.49 ft (0.759 m); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	144	58	65	59	47	32	44	35	32	27	24
2	173	89	58	66	59	48	33	40	30	32	28	29
3	173	60	61	135	59	49	33	35	18	32	29	30
4	158	57	61	84	62	55	34	34	18	32	29	30
5	145	50	62	80	64	50	34	34	18	32	29	30
6	142	47	65	75	64	55	33	35	18	32	29	30
7	147	49	65	73	63	34	35	36	18	30	30	29
8	179	49	64	70	63	8.8	32	34	20	30	30	29
9	175	49	64	70	63	8.1	34	34	19	30	30	29
10	149	51	64	69	65	9.8	32	33	29	30	29	29
11	148	56	65	68	62	9.0	29	31	21	30	26	29
12	145	58	64	66	62	9.4	27	34	14	29	20	29
13	138	53	64	65	64	9.8	27	39	9.1	29	20	32
14	138	53	65	56	61	12	27	39	7.2	29	21	31
15	146	80	64	56	62	18	27	38	6.1	28	21	25
16	160	80	64	56	62	20	24	38	5.8	28	21	15
17	163	51	64	53	64	20	24	38	5.2	29	20	14
18	155	51	65	53	64	21	27	39	4.6	29	20	14
19	153	57	64	53	64	19	32	39	5.5	28	21	13
20	154	62	64	54	64	24	42	41	7.2	28	21	10
21	157	70	64	54	88	27	49	37	5.8	28	21	6.4
22	155	69	64	98	129	28	58	38	15	28	20	5.3
23	158	62	64	83	64	28	59	39	21	28	20	3.8
24	156	59	64	65	58	46	69	41	25	28	20	2.8
25	151	54	64	53	45	60	77	41	24	28	20	2.8
26	148	54	64	65	34	32	80	35	25	28	20	2.6
27	150	54	64	55	37	29	75	35	29	27	20	2.3
28	154	55	64	56	45	28	65	39	33	27	20	1.9
29	160	56	64	58	---	38	57	38	33	26	20	1.9
30	161	58	64	63	---	38	50	37	32	27	19	2.1
31	153	---	64	61	---	34	---	37	---	27	18	---
TOTAL	4799	1837	1969	2078	1750	914.9	1257	1152	551.5	901	719	532.9
MEAN	155	61.2	63.5	67.0	62.5	29.5	41.9	37.2	18.4	29.1	23.2	17.8
MAX	179	144	65	135	129	60	80	44	35	32	30	32
MIN	138	47	58	53	34	8.1	24	31	4.6	26	18	1.9
AC-FT	9520	3640	3910	4120	3470	1810	2490	2280	1090	1790	1430	1060

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CAL YR 1976   TOTAL   98555.0   MEAN 269    MAX 544   MIN     47   AC-FT  195500
WTR YR 1977   TOTAL   18461.3   MEAN  50.6  MAX 179   MIN    1.9   AC-FT   36620
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10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°38'19", long 119°16'09", in SW¼SW¼ sec.34, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050102, In Pyramid Lake Indian Reservation, on right bank 0.5 mi (0.8 km) downstream from U.S. Highway 40 bridge and 0.2 mi (0.3 km) northeast of Wadsworth.

DRAINAGE AREA.--1,719 mi^2 (4,452 km^2) .

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorder with thermograph attachment. Datum of gage is 4,037.90 ft (1,230.752 m) above mean sea level, datum of 1929, supplementary adjustment of 1956.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, many diversions for irrigation above and below station, and by Derby Dam which diverts water out of the basin to Lahontan Reservoir.

AVERAGE DISCHARGE.--12 years, 592 ft^3/s (16.77 m^3/s), 428,900 acre-ft/yr (529 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,790 ft^3/s (220 m^3/s) Jan. 24, 1970, gage height, 11.65 ft (3.551 m); maximum gage height, 11.90 ft (3.627 m) May 22, 1967; minimum discharge, 3.3 ft^3/s (0.094 m^3/s) July 14, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 396 ft^3/s (11.2 m^3/s) Feb. 21, gage height, 4.98 ft (1.518 m); minimum, 9.7 ft^3/s (0.275 m^3/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	154	65	60	65	34	38	55	39	27	21	18
2	154	128	62	64	67	34	37	52	36	26	30	28
3	167	77	65	115	67	33	38	45	29	27	27	31
4	157	74	69	101	65	31	37	47	32	29	26	34
5	147	69	67	74	65	30	37	45	32	31	30	34
6	149	64	70	72	67	27	36	43	27	32	29	34
7	137	62	70	67	65	26	39	44	26	32	30	27
8	159	62	62	61	64	23	38	43	25	28	40	25
9	181	62	62	59	64	22	37	44	30	27	90	23
10	147	65	72	61	70	22	38	49	29	24	45	30
11	144	65	69	72	65	23	36	41	35	25	35	32
12	139	72	72	76	61	23	33	39	33	27	27	31
13	132	69	69	65	61	21	32	48	30	23	25	31
14	130	67	67	64	62	21	32	52	27	23	27	32
15	137	74	83	69	58	25	31	49	27	21	30	31
16	151	105	74	64	58	29	29	48	25	15	27	30
17	151	65	67	61	61	30	27	53	27	17	26	27
18	149	64	69	65	61	32	27	54	25	23	30	27
19	144	65	62	65	58	34	27	53	23	24	30	29
20	154	70	62	64	99	32	32	51	23	26	27	25
21	159	79	59	64	204	33	37	43	23	28	29	23
22	159	81	64	89	157	39	52	39	21	29	28	21
23	162	79	64	101	65	41	56	42	25	28	27	20
24	162	70	67	77	53	41	55	42	26	25	21	20
25	157	65	65	61	47	76	69	43	26	28	20	19
26	149	64	65	69	41	45	76	43	25	30	20	17
27	154	62	62	69	38	38	79	43	26	29	25	16
28	154	69	61	65	37	35	70	43	29	30	29	16
29	162	65	58	65	---	39	61	42	28	30	30	16
30	164	65	61	67	---	45	59	38	26	28	23	15
31	159	---	60	74	---	42	---	43	---	23	19	---
TOTAL	4705	2232	2044	2200	1945	1026	1295	1416	835	815	923	762
MEAN	152	74.4	65.9	71.0	69.5	33.1	43.2	45.7	27.8	26.3	29.8	25.4
MAX	181	154	83	115	204	76	79	55	39	32	90	34
MIN	130	62	58	59	37	21	27	38	21	15	19	15
AC-FT	9330	4430	4050	4360	3860	2040	2570	2810	1660	1620	1830	1510

CAL YR 1976 TOTAL 106369 MEAN 291 MAX 741 MIN 58 AC-FT 211000
WTR YR 1977 TOTAL 20198 MEAN 55.3 MAX 204 MIN 15 AC-FT 40060

10351650 TRUCKEE RIVER AT WADSWORTH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.
CHEMICAL ANALYSES: September 1969 to April 1972, monthly or less frequently.
SPECIFIC CONDUCTANCES: September 1969 to January 1973, monthly or less frequently; March to September 1977, monthly.
WATER TEMPERATURES: March to June 1965, monthly; July 1965 to current year, continuous.

INSTRUMENTATION.--Temperature recorder since July 1965.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 420 micromhos Oct. 10, 1969; minimum, 184 micromhos May 31, 1972.
WATER TEMPERATURES: Maximum, 28.5°C July 20, Aug. 11, 12, 1970, July 27, 28, 1971; minimum, freezing point on several days during winter months of 1974-76.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
WATER TEMPERATURES: Maximum, 27.0°C Aug. 9; minimum, 1.0°C Jan. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	14.5	10.0	7.0	4.0	3.0	3.5	1.5	7.5	6.0	9.5	6.5
2	15.5	13.5	10.5	7.5	4.0	3.0	5.0	3.5	7.0	5.0	9.0	6.5
3	16.0	12.5	11.0	8.0	4.5	3.0	5.0	2.5	7.0	5.0	8.5	6.5
4	17.0	12.0	11.0	8.0	4.5	3.0	3.5	1.5	7.0	4.5	9.5	6.0
5	17.0	12.5	11.0	8.0	5.0	3.0	3.5	2.5	7.5	5.5	10.5	6.5
6	17.5	13.0	11.0	8.5	4.5	2.5	3.0	1.0	8.5	6.0	11.0	7.5
7	17.0	13.5	11.0	8.5	4.5	2.0	4.0	1.5	8.5	5.5	10.5	8.5
8	17.5	13.5	10.5	8.0	5.0	4.0	4.5	1.5	8.0	7.5	12.5	8.5
9	17.5	13.5	10.5	8.5	5.5	4.0	4.5	1.5	9.5	6.5	12.5	9.0
10	16.5	14.0	10.0	8.5	5.0	3.5	4.0	2.0	9.5	7.0	10.0	6.5
11	16.5	13.5	9.5	8.0	4.0	3.0	4.5	1.5	10.5	7.0	10.0	7.0
12	16.0	12.0	9.5	7.5	4.0	2.0	3.5	2.0	10.5	7.5	11.5	8.5
13	15.5	11.5	9.5	7.5	4.0	2.5	3.5	2.5	11.0	7.5	10.0	7.5
14	15.5	11.5	9.5	8.5	4.0	3.0	5.0	3.5	11.0	7.5	9.5	6.5
15	15.5	12.0	10.5	8.5	4.0	1.5	5.5	3.5	11.5	8.0	9.5	7.5
16	14.5	11.5	10.5	7.5	3.5	2.0	5.5	4.0	12.0	8.5	9.0	8.0
17	14.5	11.0	11.0	8.5	4.0	2.5	5.0	4.0	12.0	9.0	9.5	6.5
18	13.5	10.0	10.5	8.5	4.0	3.0	5.0	3.5	12.0	8.5	11.0	6.5
19	13.0	9.0	10.5	8.5	4.0	3.0	5.5	3.5	11.5	8.0	12.5	8.5
20	12.5	9.0	9.5	7.5	4.0	2.5	6.0	4.5	10.5	8.0	13.0	8.5
21	12.5	9.0	9.5	7.0	4.0	2.5	6.5	6.0	8.5	7.5	14.5	9.0
22	13.0	10.0	9.5	7.0	4.0	1.5	6.5	6.0	9.0	5.5	15.5	10.5
23	13.5	10.5	8.5	6.5	4.0	2.0	7.0	5.5	8.0	7.0	15.5	11.5
24	13.0	10.0	8.5	6.0	4.0	2.5	7.0	5.0	9.0	5.5	12.5	9.0
25	12.0	9.5	8.5	6.5	3.5	2.5	7.0	5.5	9.5	6.0	13.0	8.0
26	12.0	9.0	8.0	4.5	3.5	3.0	6.5	4.5	10.5	6.5	15.0	9.5
27	10.5	7.5	3.5	2.0	4.0	3.0	6.5	4.5	11.5	7.0	14.5	10.5
28	10.5	7.0	3.5	2.5	4.5	2.5	6.5	4.5	10.5	8.0	12.5	8.0
29	9.5	7.0	4.0	3.0	4.0	4.0	6.5	4.5	---	---	12.0	7.5
30	10.5	7.5	3.5	3.0	4.0	4.0	6.0	4.0	---	---	11.5	8.5
31	10.0	7.5	---	---	4.0	3.0	8.0	5.5	---	---	12.5	7.5
MONTH	17.5	7.0	11.0	2.0	5.5	1.5	8.0	1.0	12.0	4.5	15.5	6.0

10351650 TRUCKEE RIVER AT WADSWORTH, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	10.0	15.5	13.0	21.0	16.5	23.0	19.0	24.5	20.0	21.5	18.0
2	14.0	10.0	16.5	11.5	20.0	15.5	22.0	18.5	23.5	20.0	22.5	18.5
3	16.0	9.5	16.0	12.5	20.0	15.5	22.5	17.5	23.5	19.5	23.0	19.0
4	18.0	12.0	17.0	10.5	21.5	16.0	21.5	17.5	23.0	20.0	23.0	19.0
5	18.0	13.0	16.0	11.5	22.5	17.0	22.5	16.5	22.5	19.0	24.0	19.0
6	19.5	14.5	14.0	10.5	22.0	18.0	22.0	16.5	22.5	19.0	24.0	19.5
7	19.0	14.5	14.5	10.0	21.5	17.5	23.0	17.0	23.5	19.5	23.0	19.5
8	18.0	14.0	14.0	11.5	20.5	17.0	23.0	17.5	24.0	19.0	22.5	19.0
9	16.5	11.5	13.5	11.5	18.5	16.0	23.0	18.0	27.0	20.0	22.0	18.5
10	17.5	11.5	15.0	9.5	20.0	15.5	22.5	18.0	25.0	20.5	23.0	18.5
11	17.0	11.5	14.5	11.5	21.5	16.5	23.0	18.0	24.5	20.0	22.5	19.0
12	18.0	12.5	15.5	11.5	21.5	16.5	23.5	19.0	24.0	20.5	22.0	18.5
13	17.5	14.0	17.5	11.5	20.0	17.0	23.0	18.5	23.0	20.0	21.5	18.5
14	17.0	11.0	16.5	14.0	21.5	16.5	24.0	19.0	24.0	19.5	21.0	18.5
15	17.5	11.5	16.0	12.5	22.5	17.0	24.5	19.0	24.0	19.5	20.0	17.5
16	18.5	13.0	14.5	11.0	23.0	18.0	24.5	19.0	24.0	19.5	18.5	15.5
17	17.5	12.5	15.5	10.0	22.0	17.0	24.0	19.0	23.5	20.5	17.5	13.5
18	17.0	12.0	15.5	9.5	20.5	16.5	24.0	19.0	24.0	20.0	19.0	15.0
19	17.5	11.5	17.5	11.5	21.0	17.0	23.0	18.5	24.5	20.0	19.0	16.0
20	18.5	11.5	18.5	13.5	20.5	17.0	24.0	18.5	25.0	20.5	---	---
21	18.0	12.5	19.5	15.0	22.0	17.0	---	---	24.5	20.5	---	---
22	18.0	13.5	18.5	15.0	24.5	18.5	---	---	24.0	20.5	18.0	15.0
23	20.5	13.5	15.0	12.5	25.5	19.0	23.5	19.0	24.0	19.5	18.0	14.0
24	20.5	14.5	16.0	12.0	26.5	19.5	22.5	19.0	22.0	19.5	19.0	16.0
25	19.0	15.0	17.0	11.5	24.5	20.0	24.0	19.0	21.5	18.5	19.0	16.5
26	19.0	12.5	16.5	13.5	25.5	19.0	24.5	18.5	21.5	19.0	20.0	17.0
27	18.5	14.5	18.5	12.5	25.5	19.0	24.5	19.0	21.0	17.5	20.0	17.5
28	19.5	14.5	19.5	12.5	25.5	18.5	25.0	19.5	22.5	18.5	19.0	16.5
29	18.0	14.5	20.0	14.0	25.5	19.0	24.5	18.5	23.0	19.0	19.5	17.0
30	16.5	14.5	21.0	15.0	23.5	19.0	24.5	19.5	22.0	18.5	18.5	16.0
31	---	---	22.5	16.0	---	---	24.5	19.5	21.5	18.0	---	---
MONTH	20.5	9.5	22.5	9.5	26.5	15.5	25.0	16.5	27.0	17.5	24.0	13.5
YEAR	27.0	1.0										

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAR , 1977					JUN , 1977				
08...	0835	23	390	8.5	13...	0925	30	398	17.0
APR					JUL				
14...	1045	30	366	12.0	18...	0935	24	410	19.5
MAY					AUG				
05...	1035	43	367	16.0	12...	0935	28	365	20.5

10351700 TRUCKEE RIVER NEAR NIXON, NV
(National stream-quality accounting network and pesticide network station)

LOCATION.--Lat 39°46'40", long 119°20'10", in SW¼NW¼ sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, on right bank 1.0 mi (1.6 km) upstream from Numana Dam, 4 mi (6 km) south of Nixon, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--1,815 mi^2 (4,701 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to current year at site 1.0 mi (1.6 km) downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Indian Canal, both of which are available in files of Federal Court Watermaster. Currently, these records are kept only at times of diversion to the canal. At other times, the records are equivalent.

REVISED RECORDS.--WSP 2127: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 3,940 ft (1,201 m), from topographic map.

REMARKS.--Records good. Flow regulated by Lake Tahoe, Prosser Creek, Stampede and Boca Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi (40 km) upstream, out of basin to Lahontan Reservoir. Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river.

AVERAGE DISCHARGE.--20 years, 454 ft^3/s (12.86 m^3/s), 328,900 acre-ft/yr (406 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,400 ft^3/s (408 m^3/s) Feb. 2, 1963, gage height, 14.39 ft (4.386 m); minimum daily, 8.1 ft^3/s (0.23 m^3/s) July 7, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 24, 1955, reached a stage of 14.1 ft (4.298 m), from floodmarks, discharge, 14,000 ft^3/s (396 m^3/s), by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 357 ft^3/s (10.1 m^3/s) Feb. 21, gage height, 3.97 ft (1.210 m); minimum, 17 ft^3/s (0.48 m^3/s) July 10-12, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	183	88	82	80	56	51	72	50	27	21	22
2	191	172	85	86	79	54	50	68	46	30	29	23
3	205	118	86	101	80	53	49	62	44	28	28	28
4	198	107	88	90	79	51	48	52	35	28	27	31
5	190	100	88	86	79	50	47	56	32	30	30	35
6	186	94	89	82	80	48	46	53	34	31	30	33
7	175	92	90	81	80	44	47	58	33	34	31	32
8	178	91	84	79	75	41	49	54	28	32	31	26
9	214	90	81	77	73	37	46	57	29	27	[illegible]	27
10	181	90	81	79	77	38	49	60	40	22	87	26
11	174	94	86	76	79	37	47	58	53	20	46	23
12	173	97	90	80	73	36	44	58	60	24	36	22
13	165	95	86	78	74	35	43	60	42	30	32	22
14	159	93	85	80	75	35	41	63	36	26	22	27
15	167	95	95	83	70	34	39	67	31	24	22	28
16	179	125	95	84	69	40	38	65	30	26	24	36
17	184	98	86	80	70	43	36	64	29	24	24	33
18	182	90	84	79	72	43	35	69	29	20	24	33
19	173	91	84	82	69	44	35	67	30	22	31	30
20	179	98	85	82	75	42	37	64	28	24	29	31
21	189	105	85	80	218	43	40	58	27	28	26	29
22	190	106	86	90	164	46	52	52	26	28	30	27
23	191	104	81	118	104	50	66	52	26	29	29	25
24	187	95	81	99	83	50	61	49	25	26	27	25
25	185	91	80	84	74	74	60	50	25	28	22	24
26	178	87	80	83	65	69	71	53	27	29	22	24
27	180	93	78	85	60	53	83	55	26	30	24	23
28	181	94	76	79	59	48	81	51	23	28	28	22
29	186	91	78	79	---	49	76	52	27	30	31	21
30	191	100	78	80	---	58	73	49	27	29	30	22
31	186	---	78	87	---	56	---	49	---	21	26	---
TOTAL	5668	3079	2617	2611	2335	1457	1540	1797	998	835	954	810
MEAN	183	103	84.4	84.2	83.4	47.0	51.3	58.0	33.3	26.9	30.8	27.0
MAX	214	183	95	118	218	74	83	72	60	34	87	36
MIN	159	87	76	76	59	34	35	49	23	20	21	21
AC-FT	11240	6110	5190	5180	4630	2890	3050	3560	1980	1660	1890	1610

CAL YR 1976 TOTAL 112802 MEAN 308 MAX 716 MIN 76 AC-FT 223700
WTR YR 1977 TOTAL 24701 MEAN 67.7 MAX 218 MIN 20 AC-FT 48990

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1960 to November 1961, May 1962 to current year.
CHEMICAL ANALYSES: January 1969 to December 1971 and January 1973 to current year, monthly.
SPECIFIC CONDUCTANCES: January to December 1969, monthly or more frequently; January 1970 to current year, monthly.
BIOLOGICAL DATA: January 1973 to current year, monthly.
MICROBIOLOGICAL DATA: February 1973 to current year, monthly.
WATER TEMPERATURES: March 1960 to November 1961 and May 1962 to March 1965, monthly; April 1965 to June 1975, monthly or more frequently; July 1975 to current year, monthly.
SEDIMENT DATA: December 1964 to June 1975, monthly or more frequently; July 1975 to current year, monthly.

COOPERATION.--Pesticide analyses by U.S. Environmental Protection Agency.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 945 micromhos June 22, 1977; minimum, 96 micromhos May 17, June 1, 1969.
WATER TEMPERATURES: Maximum, 26.5°C Aug. 4, 1966; minimum, freezing point on Jan. 4, 1973, Dec. 15, 1975.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 2,530 mg/L Mar. 17, 1967; minimum, 2 mg/L several times during period of record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
21...	1200	189	332	8.8	10.0	3	8	9	93	23	8.6
JAN											
25...	1140	80	493	8.0	4.5	5	0	52	120	30	12
FEB											
24...	1200	85	560	8.6	6.0	10	0	180	--	--	--
MAR											
29...	1100	50	645	8.6	7.5	8	0	45	--	--	--
APR											
29...	1105	69	565	8.9	15.5	9	0	370	150	36	14
MAY											
24...	1130	55	695	9.0	13.5	6	3	420	--	--	--
JUN											
22...	1040	28	945	8.6	22.5	9	0	B2100	--	--	--
JUL											
27...	1010	32	770	8.7	21.0	20	0	380	190	43	19
AUG											
23...	1015	35	757	8.6	21.5	10	0	320	--	--	--

B: NON-IDEAL COLONY COUNT.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
21...	29	1.3	4.1	102	0	30	28	.1	14	198	187
JAN											
25...	47	1.8	4.9	118	0	49	55	.2	20	289	277
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
29...	55	2.0	6.6	140	0	64	61	.2	14	330	320
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	83	2.7	7.4	160	0	91	99	.1	22	448	444
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT 21...	101	.34	.02	.03	.05	.69	.60	1.1	.24	.21
JAN 25...	62.4	.80	.03	.04	.24	.79	.49	1.7	.32	.34
FEB 24...	--	.74	.03	.33	--	.77	--	1.9	.28	--
MAR 29...	--	.47	.01	.06	--	.44	--	.98	.27	--
APR 29...	61.5	.56	.01	.03	--	.76	--	1.4	.49	.36
MAY 24...	--	.07	.01	.11	--	.51	--	.70	.27	--
JUN 22...	--	.00	.01	.11	--	.88	--	1.0	.27	--
JUL 27...	38.7	.01	.00	.04	.01	.73	.46	.78	.21	.12
AUG 23...	--	.00	.00	.01	--	.43	--	.44	.23	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 21...	1200	10	10	<10	0	0	0	<50	0	20	1	220
JAN 25...	1140	13	13	<10	0	0	0	<50	0	20	6	270
APR 29...	1105	20	18	<10	1	0	0	<50	1	<10	1	650
JUL 27...	1010	9	11	50	6	0	0	<50	0	20	0	1300

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 21...	30	<100	0	80	20	.0	.0	0	0	20	10
JAN 25...	40	<100	0	180	150	.1	.0	0	0	30	10
APR 29...	20	100	0	240	100	.0	.0	1	0	10	0
JUL 27...	20	<100	1	140	60	.0	.0	1	1	10	4

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)
JAN 25...	1140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 29...	1105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 23...	1015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 29...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT 21...	1200	189	6	3.1	--	--
JAN 25...	1140	80	8	1.7	--	--
FEB 24...	1200	85	23	5.3	--	--
MAR 29...	1100	50	10	1.3	--	--
APR 29...	1105	69	30	5.6	--	--
MAY 24...	1130	55	30	4.5	97	100
JUN 22...	1040	28	26	2.0	--	--
JUL 27...	1010	32	47	4.1	--	--
AUG 23...	1015	35	28	2.6	--	--

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	OCT 21,76 1200	JAN 25,77 1140	FEB 24,77 1200	APR 29,77 1105
TOTAL CELLS/ML	700	2200	5200	12000
DIVERSITY: DIVISION	1.4	1.3	0.0	0.9
.CLASS	1.4	1.3	0.0	0.9
..ORDER	1.8	1.7	0.3	1.6
...FAMILY	2.9	2.4	2.6	2.2
....GENUS	3.1	0.0	2.8	2.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	*	0	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	*	0
...OOCYSTACEAE								
....ANKISTRODESMUS	8	1	--	-	--	-	63	1
....CHODATELLA	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	250	2
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	*	0
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	*	0
....SCENEDESMUS	67	9	*	0	--	-	2300#	19
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	58	3	--	-	250	2
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	37	5	380#	17	320	6	1800#	15
....MELOSIRA	42	6	*	0	--	-	4300#	37
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	*	0	12	1	320	6	--	-
....COCCONEIS	25	4	12	1	91	2	63	1
....RHOICOSPHENIA	*	0	*	0	91	2	*	0
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	*	0
....CYMBELLA	17	2	12	1	270	5	*	0
....EPITHEMIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 21,76	JAN 25,77	FEB 24,77	APR 29,77
TIME	1200	1140	1200	1105
TOTAL CELLS/ML	700	2200	5200	12000
DIVERSITY: DIVISION	1.4	1.3	0.0	0.9
.CLASS	1.4	1.3	0.0	0.9
..ORDER	1.8	1.7	0.3	1.6
...FAMILY	2.9	2.4	2.6	2.2
....GENUS	3.1	0.0	2.8	2.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
....DIATOMA	29	4	46	2	410	8	250	2
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	91	2	--	-
....FRAGILARIA	25	4	140	6	140	3	1100	9
....SYNEDRA	12	2	*	0	45	1	380	3
...GOMPHONEMATACEAE								
....GOMPHONEIS	--	-	--	-	--	-	63	1
....GOMPHONEMA	4	1	12	1	45	1	63	1
...NAVICULACEAE								
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	87	12	160	7	1200#	24	63	1
....PINNULARIA	--	-	--	-	--	-	*	0
...NITZSCHIACEAE								
....NITZSCHIA	130#	18	370#	16	1900#	38	700	6
...SURIRELLACEAE								
....CYMATOPLEURA	*	0	--	-	--	-	*	0
....SURIRELLA	--	-	*	0	91	2	*	0
...TABELLARIACEAE								
....TABELLARIA	--	-	*	0	91	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE	--	-	990#	44	--	-	--	-
....OSCILLATORIA	220#	31	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	130	1
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	4	1	35	2	--	-	*	0
....TRACHELOMONAS	--	-	12	1	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	JUN 22,77	JUL 27,77	AUG 23,77
TIME	1040	1010	1015
TOTAL CELLS/ML	4500	12000	9600
DIVERSITY: DIVISION	1.0	1.2	1.3
.CLASS	1.0	1.2	1.3
..ORDER	1.4	1.5	1.6
...FAMILY	2.8	2.9	2.4
....GENUS	3.4	3.1	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	290	3	--	-
...COELASTRACEAE						
....COELASTRUM	210	5	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	480	11	940	8	530	6
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	53	1	120	1	--	-
....CHODATELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	240	2	--	-
....KIRCHNERIELLA	36	1	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	*	0
....TETRAEDRON	53	1	59	1	--	-
....TREUBARIA	--	-	--	-	66	1
...SCENEDESMACEAE						
....ACTINASTRUM	410	9	--	-	--	-
....SCENEDESMUS	1300#	29	5200#	44	5200#	54
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	89	2	470	4	270	3
....MELOSIRA	730#	16	880	8	530	6
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	99	1
....COCCONEIS	210	5	350	3	360	4
....RHOICOSPHENIA	200	4	120	1	--	-
...CYMBELLACEAE						
....AMPHORA	89	2	120	1	360	4
....CYMBELLA	53	1	--	-	--	-
....EPITHEMIA	--	-	59	1	66	1
...DIATOMACEAE						

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

	JUN 22,77	JUL 27,77	AUG 23,77
DATE	JUN 22,77	JUL 27,77	AUG 23,77
TIME	1040	1010	1015
TOTAL CELLS/ML	4500	12000	9600
DIVERSITY: DIVISION	1.0	1.2	1.3
.CLASS	1.0	1.2	1.3
..ORDER	1.4	1.5	1.6
...FAMILY	2.8	2.9	2.4
....GENUS	3.4	3.1	2.5

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
....DIATOMA	140	3	830	7	360	4
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEIS	--	-	--	-	--	-
....GOMPHONEMA	89	2	590	5	66	1
...NAVICULACEAE						
....GYROSIGMA	--	-	59	1	--	-
....NAVICULA	180	4	470	4	270	3
....PINNULARIA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	110	2	470	4	230	2
...SURIRELLACEAE						
....CYMATOPLEURA	--	-	--	-	--	-
....SURIRELLA	36	1	59	1	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROCCOCCALES						
...CHROCCOCCAEAE						
....AGMENELLUM	--	-	--	-	1100	11
..HORMOGONALES						
...OSCILLATORIACEAE	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.CRYPTOPHYCEAE						
..CRYPTOMONIDALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	240	2	--	-
...CRYPTOMONODACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	180	2	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..PERIDINIALES						
...PERIDINIACEAE						
....PERIDINIUM	--	-	--	-	66	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Retrieval Date	Length of exposure Polyethylene strip (days)	Biomass (mg/m²)		Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
		Dry weight	Ash weight			
May 24	26	32,500	24,700	0.000	0.001	--
Aug 23	28	24,400	19,300	3.40	0.023	1,500

10352500 McDERMITT CREEK NEAR McDERMITT, NV
(National stream-quality accounting network station)

LOCATION.--Lat 41°58'00", long 117°50'01", in SE¼SE¼ sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on right bank at mouth of canyon, 6.5 mi (10.5 km) southwest of McDermitt.

DRAINAGE AREA.--225 mi² (583 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WSP 1214: 1949-50 (P).

GAGE.--Water-stage recorder. Altitude of gage is 4,545 ft (1,385 m) from topographic map. Prior to May 11, 1972, at site approximately 300 ft (91 m) downstream on left bank at same datum.

REMARKS.--Records fair except those for winter months, which are poor. One diversion for about 1,500 acres (6.07 km²) above station.

AVERAGE DISCHARGE.--29 years, 30.1 ft³/s (0.852 m³/s), 21,810 acre-ft/yr (26.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s (112 m³/s) about Feb. 1, 1963, gage height, 8.64 ft (2.634 m), in gage well, from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of slope-area measurement of peak flow; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft³/s (2.32 m³/s) June 8, gage height, 3.69 ft (0.820 m), no peak above base of 150 ft³/s (4.25 m³/s); no flow Sept. 4-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.1	5.2	5.2	7.5	6.1	8.0	4.1	7.4	5.0	.63	.70
2	8.0	8.2	5.4	5.3	7.5	6.4	7.8	6.5	6.9	6.7	.59	.38
3	8.0	8.4	5.6	5.0	7.5	5.8	7.0	5.7	6.4	13	.52	.11
4	8.0	8.4	5.9	4.4	7.0	5.8	6.0	7.1	5.9	19	.68	.00
5	7.8	8.4	5.8	4.0	7.0	5.8	5.0	7.8	5.1	17	.74	.00
6	8.0	8.3	5.6	3.7	7.4	6.4	3.6	11	4.9	14	.92	.00
7	7.8	8.3	5.6	3.7	8.5	6.4	3.4	10	4.9	12	2.0	.00
8	7.6	8.2	5.8	3.8	8.5	5.8	3.8	9.3	19	11	3.6	.00
9	7.5	8.2	5.6	4.2	8.5	6.4	5.4	8.6	33	9.3	2.3	.00
10	7.4	8.2	5.3	4.6	8.5	6.4	4.5	8.7	30	8.9	1.7	.00
11	7.3	8.2	5.2	5.1	9.0	6.7	3.8	10	24	7.4	1.3	.00
12	7.4	8.2	5.2	5.4	9.0	7.0	3.6	11	19	5.8	.93	.00
13	7.4	8.7	5.4	5.2	9.3	7.4	4.3	9.4	17	4.9	.67	.22
14	7.3	8.6	5.5	5.0	9.4	6.4	5.4	9.4	16	4.7	.66	.30
15	7.2	8.5	5.4	5.3	9.0	7.0	5.0	9.9	16	4.3	.80	.38
16	7.1	8.5	5.2	5.6	10	7.7	4.3	11	14	3.2	.46	.54
17	7.0	8.4	4.9	5.8	12	6.7	3.8	10	13	2.7	.38	.74
18	7.2	8.3	4.7	5.8	8.6	6.7	3.6	9.0	12	1.8	.54	.71
19	7.3	8.1	4.5	6.3	8.0	7.0	3.6	8.2	12	.98	.62	.71
20	7.4	7.9	4.3	6.9	7.4	7.7	3.4	8.4	12	.93	.86	.76
21	7.3	7.8	4.4	7.5	7.0	7.0	3.6	8.2	11	.78	.84	.83
22	7.4	8.0	4.5	8.0	6.7	10	3.3	7.7	11	.82	.98	.91
23	7.5	8.3	4.6	7.6	6.4	8.6	3.3	8.6	9.7	1.5	.70	1.1
24	7.3	8.6	4.8	7.1	6.0	8.0	3.3	11	8.0	2.2	.46	1.7
25	7.7	8.0	5.0	6.4	6.7	7.6	3.4	12	6.4	2.0	1.5	1.9
26	8.0	7.4	5.1	6.2	7.4	7.4	3.4	11	5.4	1.7	2.2	2.0
27	7.8	6.6	5.0	6.2	6.7	7.2	3.1	12	5.0	1.5	1.8	2.0
28	7.5	5.6	4.6	6.1	6.7	7.2	3.0	11	4.8	1.1	1.6	2.0
29	7.6	5.0	4.5	6.2	---	7.4	2.9	9.6	4.8	1.0	1.3	2.2
30	8.1	5.1	4.6	6.4	---	7.6	2.8	9.0	4.8	.91	1.0	2.4
31	8.1	---	4.8	6.9	---	7.8	---	8.3	---	.78	.80	---
TOTAL	234.4	236.5	158.0	174.9	223.2	217.4	127.4	283.5	349.4	166.90	34.08	22.59
MEAN	7.56	7.88	5.10	5.64	7.97	7.01	4.25	9.15	11.6	5.38	1.10	.75
MAX	8.1	8.7	5.9	8.0	12	10	8.0	12	33	19	3.6	2.4
MIN	7.0	5.0	4.3	3.7	6.0	5.8	2.8	4.1	4.8	.78	.38	.00
AC-FT	465	469	313	347	443	431	253	562	693	331	68	45

CAL YR 1976 TOTAL 6865.20 MEAN 18.8 MAX 143 MIN 1.4 AC-FT 13620
WTR YR 1977 TOTAL 2228.27 MEAN 6.10 MAX 33 MIN .0 AC-FT 4420

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1949, March 1950 to October 1951, April 1952, November 1961 to current year.
CHEMICAL ANALYSES: October 1974 to current year, monthly.
SPECIFIC CONDUCTANCES: October 1974 to August 1975, monthly; September 1975 to current year, once-daily.
BIOLOGICAL, MICROBIOLOGICAL, AND SEDIMENT DATA: January 1975 to current year, monthly.
WATER TEMPERATURES: July to September 1949 and March 1950 to October 1951, monthly (seasonal); April 1952, twice; November 1961 to September 1962, monthly (seasonal); October 1962 to August 1975, monthly; September 1975 to current year, once-daily.

REMARKS.--Discharge less than 0.01 ft^3/s during Sept. 4-12, 1977.

EXTREMES MEASURED FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCES: Maximum, 579 micromhos June 10, 1977; minimum, 160 micromhos Mar. 18, 1976.
WATER TEMPERATURES: Maximum, 31.0°C June 18, 1968; minimum, freezing point on several days during winter months of most years.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum, 1,460 mg/L Sept. 22, 1976; minimum, 3 mg/L Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR (MEASUREMENTS AT LEAST ONCE-DAILY).--
SPECIFIC CONDUCTANCES: Maximum, 579 micromhos June 10; minimum, 253 micromhos Feb. 12.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 1; minimum, freezing point on several days during November-January, Mar. 1, 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 19...	1430	7.3	330	8.6	11.5	2	2	5	110	27	9.2
DEC 22...	1505	E3.0	316	8.5	.0	2	1	1	100	25	9.2
JAN 26...	1035	E3.5	316	8.7	.0	4	0	66	94	24	8.3
FEB 22...	1510	4.5	258	8.9	3.5	9	0	29	78	20	6.8
MAR 30...	1310	7.7	308	8.6	7.5	7	0	21	93	24	8.0
APR 27...	1515	2.8	429	8.8	23.0	4	1	13	140	36	12
MAY 25...	1420	11	453	8.8	16.5	8	0	220	170	42	15
JUN 23...	1355	4.5	417	9.0	29.0	10	0	100	130	31	13
JUL 28...	0820	1.1	367	8.4	14.5	2	2	97	93	21	9.8
AUG 24...	1130	.50	359	9.2	16.5	3	0	53	89	21	8.8

E: ESTIMATED.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 19...	29	1.2	3.8	167	0	22	11	1.1	33	209	218
DEC 22...	28	1.2	3.1	143	4	21	11	1.1	32	208	205
JAN 26...	28	1.3	2.9	147	0	23	12	1.0	30	203	202
FEB 22...	25	1.2	2.5	121	0	19	10	1.1	28	184	172
MAR 30...	27	1.2	3.0	140	0	23	14	1.1	28	201	197
APR 27...	40	1.5	4.5	160	21	34	18	1.3	28	286	274
MAY 25...	39	1.3	4.2	240	3	32	17	1.3	33	298	305
JUN 23...	44	1.7	4.8	190	14	31	18	1.4	33	263	284
JUL 28...	42	1.9	4.6	160	0	30	18	1.4	27	221	233
AUG 24...	44	2.0	4.8	140	9	28	19	1.5	29	227	234

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT 19...	4.12	.00	.00	.00	.00	.22	.01	.22	.08	.05
DEC 22...	E1.68	.17	.00	.00	--	.16	--	.33	.05	--
JAN 26...	E1.92	.42	.00	.03	.01	--	--	3.2	.08	.06
FEB 22...	2.24	.30	.00	.03	--	.01	--	.34	.09	--
MAR 30...	4.18	.01	.00	.00	--	.27	--	.28	.05	--
APR 27...	2.16	.08	.00	.01	.00	.22	.22	.31	.08	.06
MAY 25...	9.49	.00	.00	.02	--	.19	--	.21	.11	--
JUN 23...	3.20	.00	.01	.08	--	.27	--	.36	.06	--
JUL 28...	.66	.00	.01	.00	--	.39	--	.40	.01	--
AUG 24...	.31	.00	.00	.00	.01	.55	.38	.55	.06	.04

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
JAN 26...	1035	12	11	<10	0	0	0	<50	1	<10	2	270
APR 27...	1515	18	17	<10	0	0	0	<50	0	<10	1	300
AUG 24...	1130	18	4	20	1	20	0	<50	0	10	2	240

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JAN 26...	250	<100	0	20	10	.1	.1	0	0	10	0
APR 27...	10	<100	0	30	0	.0	.0	1	0	0	0
AUG 24...	20	<100	1	10	10	.2	.0	0	0	20	0

E: ESTIMATED.

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 19,76	DEC 22,76	JAN 26,77	FEB 22,77
TIME	1430	1505	1035	1510
TOTAL CELLS/ML	260	360	2600	3200
DIVERSITY: DIVISION	0.1	0.4	0.0	0.9
.CLASS	0.1	0.4	0.0	0.9
..ORDER	0.6	0.5	0.0	1.2
...FAMILY	2.5	2.1	1.1	2.8
....GENUS	2.6	2.1	1.2	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	27	1
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	*	0	9	2	--	-	330	10
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	*	0	--	-	*	0
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	30	12	6	2	--	-	95	3
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	27	10	3	1	--	-	54	2
....COCCONEIS	7	3	*	0	--	-	*	0
....RHOICOSPHENIA	*	0	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	26	1	41	1
....EPITHEMIA	*	0	*	0	--	-	54	2
....RHOPALODIA	*	0	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	10	4	6	2	--	-	95	3
...FRAGILARIACEAE								
....FRAGILARIA	57#	22	9	2	--	-	1300#	40
....SYNEDRA	3	1	23	7	--	-	41	1
...GOMPHONEMATACEAE								
....GOMPHONEIS	--	-	--	-	--	-	--	-
....GOMPHONEMA	*	0	88#	25	1900#	73	95	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	OCT 19,76	DEC 22,76	JAN 26,77	FEB 22,77
TIME	1430	1505	1035	1510
TOTAL CELLS/ML	260	360	2600	3200
DIVERSITY: DIVISION	0.1	0.4	0.0	0.9
.CLASS	0.1	0.4	0.0	0.9
..ORDER	0.6	0.5	0.0	1.2
...FAMILY	2.5	2.1	1.1	2.8
....GENUS	2.6	2.1	1.2	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
...NAVICULACEAE								
....AMPHIPLEURA	--	-	--	-	26	1	--	-
....CALONEIS	--	-	--	-	--	-	--	-
....DIPLONEIS	*	0	--	-	--	-	--	-
....GYROSIGMA	*	0	--	-	--	-	--	-
....NAVICULA	43#	17	18	5	210	8	200	6
....PINNULARIA	*	0	--	-	--	-	68	2
....PLEUROSIGMA	--	-	--	-	--	-	41	1
...NITZSCHIACEAE								
....HANTZSCHIA	*	0	--	-	--	-	*	0
....NITZSCHIA	77#	30	180#	51	440#	17	490#	15
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	110	3
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	*	0	12	3	--	-	110	3
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	27	1
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	3	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE	APR 27,77	JUN 23,77	JUL 28,77	AUG 24,77
TIME	1515	1355	0820	1130
TOTAL CELLS/ML	1000	660	450	1500
DIVERSITY: DIVISION	0.3	1.2	1.5	1.3
.CLASS	0.3	1.2	1.5	1.3
..ORDER	0.4	1.3	2.1	2.2
...FAMILY	1.9	2.2	2.7	2.7
....GENUS	2.1	2.3	3.2	3.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	18	4	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	21	3	--	-	140	9
....DICTYOSPHAERIUM	--	-	--	-	--	-	43	3
....SELENASTRUM	--	-	--	-	--	-	*	0
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	71#	16	19	1
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	50	5	--	-	13	3	10	1
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	29	2
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	10	2	18	4	10	1
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	10	1	--	-	--	-	48	3
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	10	1	16	2	--	-	--	-
....COCCONEIS	--	-	5	1	9	2	19	1
....RHOICOSPHENIA	*	0	*	0	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	*	0	--	-	--	-
....CYMBELLA	10	1	*	0	--	-	--	-
....EPITHEMIA	10	1	*	0	35	8	19	1
....RHOPALODIA	*	0	*	0	4	1	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	230#	23	*	0	--	-	72	5
....SYNEDRA	10	1	10	2	22	5	--	-
...GOMPHONEMATACEAE								
....GOMPHONEIS	20	2	--	-	--	-	--	-
....GOMPHONEMA	10	1	*	0	4	1	10	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

	APR 27,77	JUN 23,77	JUL 28,77	AUG 24,77
DATE	APR 27,77	JUN 23,77	JUL 28,77	AUG 24,77
TIME	1515	1355	0820	1130
TOTAL CELLS/ML	1000	660	450	1500
DIVERSITY: DIVISION	0.3	1.2	1.5	1.3
.CLASS	0.3	1.2	1.5	1.3
..ORDER	0.4	1.3	2.1	2.2
...FAMILY	1.9	2.2	2.7	2.7
....GENUS	2.1	2.3	3.2	3.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...NAVICULACEAE								
....AMPHIPLEURA	--	-	--	-	--	-	--	-
....CALONEIS	10	1	--	-	--	-	--	-
....DIPLONEIS	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	70	7	47	7	9	2	62	4
....PINNULARIA	10	1	--	-	--	-	*	0
....PLEUROSIGMA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....HANTZSCHIA	--	-	--	-	--	-	--	-
....NITZSCHIA	570#	56	250#	38	18	4	72	5
...SURIRELLACEAE								
....SURIRELLA	*	0	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	--	-	--	-	89#	20	--	-
....ANACYSTIS	--	-	--	-	--	-	110	7
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	190#	29	31	7	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	100#	16	--	-	570#	37
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....GOMPHOSPHAERIA	--	-	--	-	110#	25	310#	20
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Retrieval Date	Length of exposure Polyethylene strip (days)	Biomass (mg/m²)		Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
		Dry weight	Ash weight			
May 25	29	49,900	44,100	0.434	0.015	13,360

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT				
19...	1430	7.3	4	.08
DEC				
22...	1505	E3.0	3	E.02
JAN				
26...	1035	E3.5	6	E.06
FEB				
22...	1510	4.5	21	.26
MAR				
30...	1310	7.7	12	.25
APR				
27...	1515	2.8	11	.08
MAY				
25...	1420	11	34	1.1
JUN				
23...	1355	4.5	28	.34
JUL				
28...	0820	1.1	13	.04
AUG				
24...	1130	.50	32	.04

E: ESTIMATED.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	330	354	294	263	271	329	507	452	377	344	348
2	---	325	333	293	276	272	328	507	---	351	347	353
3	---	316	318	292	276	289	328	510	---	---	346	338
4	---	320	307	298	282	272	311	507	---	---	345	337
5	---	319	307	299	259	277	343	510	---	427	344	354
6	---	316	316	321	259	282	346	548	428	395	352	358
7	---	319	315	320	261	272	371	---	431	395	357	362
8	---	---	312	304	256	269	---	---	422	390	---	378
9	297	314	298	302	257	270	---	513	532	373	386	374
10	311	318	264	303	257	277	---	528	579	379	351	363
11	314	312	317	305	255	270	414	531	550	356	346	387
12	282	313	318	304	253	294	414	515	529	361	345	356
13	290	311	317	316	263	286	414	510	510	353	345	358
14	296	311	309	310	254	285	431	---	497	---	344	373
15	283	311	308	300	255	286	450	---	483	---	338	378
16	301	311	311	313	263	291	444	468	---	---	333	423
17	315	312	321	292	260	290	427	463	450	---	333	380
18	324	310	---	296	261	270	426	470	450	344	333	367
19	314	315	337	288	---	271	420	464	444	378	353	384
20	314	297	330	293	269	273	420	466	448	332	---	384
21	318	303	329	285	287	273	427	---	---	331	---	387
22	320	304	327	308	269	277	---	449	428	---	338	388
23	315	304	323	299	286	273	444	449	414	---	339	395
24	309	312	---	309	293	282	444	466	414	---	---	428
25	321	---	---	313	296	287	448	466	407	---	345	423
26	311	349	322	314	---	303	446	466	---	---	345	402
27	307	353	322	300	---	303	444	466	378	---	342	396
28	310	350	324	300	271	---	444	443	376	346	340	390
29	308	373	316	273	---	309	442	466	376	341	353	402
30	309	363	315	275	---	307	---	445	382	342	351	395
31	314	---	---	276	---	306	---	445	---	---	352	---
MEAN	307	321	317	299	267	282	406	483	451	365	346	378
MAX	324	373	354	321	296	309	450	548	579	427	386	428
MIN	282	297	264	273	253	269	311	443	376	331	333	337

WTR YR 1977 MEAN 349 MAX 579 MIN 253

10352500 McDERMITT CREEK NEAR McDERMITT, NV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.5	0.5	0.0	0.5	0.0	7.0	16.5	25.0	25.5	29.0	25.0
2	---	12.0	1.0	0.0	0.5	0.0	11.0	16.5	---	26.0	25.0	25.0
3	---	11.0	0.0	0.0	0.5	1.0	11.5	17.0	---	---	24.0	25.0
4	17.0	11.0	0.0	0.0	0.5	1.0	19.0	17.5	---	---	21.0	27.0
5	17.5	10.5	0.0	0.0	0.5	4.0	21.0	10.0	---	22.0	23.0	26.0
6	18.0	9.5	0.0	0.0	1.0	6.0	21.0	13.0	28.0	26.0	20.0	28.0
7	18.0	9.0	0.0	0.0	1.0	5.0	20.0	---	22.0	26.0	17.0	25.0
8	18.5	---	0.5	0.0	1.0	10.0	---	---	22.0	23.0	---	26.0
9	18.0	7.0	0.0	0.0	1.0	6.0	---	15.5	14.0	26.0	22.0	26.0
10	17.5	8.0	0.0	0.0	1.0	6.0	---	12.0	18.0	26.0	25.0	24.0
11	17.0	8.0	0.0	0.0	1.0	7.0	13.0	15.0	22.0	26.5	24.5	22.0
12	17.0	8.0	0.0	0.0	1.0	8.0	13.0	19.0	22.0	25.0	25.0	23.0
13	16.5	8.5	0.5	0.0	1.0	8.5	12.0	21.0	23.0	26.5	26.0	22.0
14	16.5	9.0	0.5	0.0	1.0	9.0	19.0	---	17.0	---	24.0	19.0
15	16.5	9.0	0.5	0.0	1.5	10.0	20.0	---	27.0	---	26.0	21.0
16	13.0	9.5	0.0	0.0	3.0	9.0	20.0	15.5	---	---	27.0	18.0
17	13.0	9.0	0.5	0.0	4.5	6.5	18.0	16.0	19.0	---	25.0	18.0
18	12.0	8.5	---	0.0	5.5	7.0	18.0	16.0	19.5	25.0	24.0	17.0
19	12.0	7.0	0.0	0.0	---	10.0	20.0	17.0	22.0	25.0	24.0	17.0
20	13.0	6.0	0.0	0.0	4.5	10.0	19.0	21.0	17.0	25.0	---	15.0
21	12.0	6.0	0.0	0.0	4.0	11.0	19.0	---	---	25.0	---	16.0
22	12.0	6.0	0.0	0.0	4.0	15.0	---	15.0	27.0	---	24.0	15.0
23	12.0	6.0	0.0	0.0	1.0	9.0	20.0	15.5	26.0	---	24.0	14.0
24	8.5	5.0	---	0.0	3.0	12.0	20.0	15.5	27.0	---	---	16.0
25	8.0	---	---	0.0	4.0	10.0	20.0	16.0	28.0	---	22.0	19.0
26	9.0	0.0	0.0	0.0	---	6.0	22.0	18.0	---	---	21.0	19.0
27	9.5	0.0	0.0	0.0	---	6.0	23.0	19.0	25.5	---	16.0	20.0
28	10.0	0.0	0.0	0.0	5.0	---	23.0	20.0	25.5	25.0	23.0	18.0
29	10.0	0.0	0.0	0.0	---	9.0	22.0	25.0	25.5	27.0	24.0	14.0
30	10.0	0.0	0.0	0.0	---	9.0	---	27.0	26.0	26.0	24.0	16.0
31	10.0	---	---	0.0	---	7.0	---	27.0	---	---	24.0	---
MEAN	13.6	6.9	0.1	0.0	2.0	7.2	18.0	17.5	22.9	25.3	23.4	20.5
MAX	18.5	12.0	1.0	0.0	5.5	15.0	23.0	27.0	28.0	27.0	29.0	28.0
MIN	8.0	0.0	0.0	0.0	0.5	0.0	7.0	10.0	14.0	22.0	16.0	14.0

WTR YR 1977 MEAN 12.5 MAX 29.0 MIN 0.0

10353000 EAST FORK QUINN RIVER NEAR McDERMITT, NV

LOCATION.--Lat 41°59'00", long 117°35'00", in sec.9, T.47 N., R.39 E., Humboldt County, Hydrologic Unit 16040201, in Fort McDermitt Indian Reservation, on right bank 1 mi (2 km) downstream from South Fork and 7 mi (11 km) east of McDermitt.

DRAINAGE AREA.--140 mi^2 (363 km^2), approximately.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,700 ft (1,433 m), from topographic map.

REMARKS.--Records good except for period of no gage height record, Nov. 23 to Jan. 6, which is fair. No diversion above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--29 years, 26.4 ft^3/s (0.748 m^3/s), 19,130 acre-ft/yr (23.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) Jan. 15, 1956, gage height, 8.52 ft (2.597 m); minimum, 0.10 ft^3/s (0.003 m^3/s) Sept. 6, 7, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft^3/s (1.13 m^3/s) April 6, gage height, 2.83 ft (0.863 m), no peak above base of 100 ft^3/s (2.83 m^3/s); minimum discharge 0.20 ft^3/s (0.006 m^3/s) Aug. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	5.1	4.2	4.2	5.2	5.7	7.2	7.7	6.8	4.4	.43	2.1
2	4.8	5.1	4.2	4.3	4.7	5.4	6.2	7.7	7.2	5.7	.43	2.0
3	5.8	5.0	4.3	4.4	4.6	5.7	7.1	8.1	7.5	6.9	.64	1.8
4	5.8	4.9	4.6	4.7	3.9	5.4	7.2	8.3	6.7	6.8	.72	1.8
5	5.3	4.8	4.5	5.0	4.8	4.8	13	8.2	6.0	6.0	.79	1.6
6	5.2	5.1	4.2	4.7	5.3	5.6	23	8.6	5.6	5.3	.79	1.4
7	5.0	5.0	4.3	9.3	4.9	5.7	24	9.3	6.0	4.9	1.1	1.1
8	5.0	4.8	4.6	6.0	5.0	5.7	22	8.7	11	4.5	1.1	1.2
9	4.9	4.8	4.7	10	4.9	6.1	19	8.4	13	4.4	.86	1.4
10	4.9	4.8	4.4	4.9	4.9	5.2	14	9.7	17	4.2	.79	1.4
11	5.1	4.8	4.1	5.3	4.9	3.9	12	9.6	17	3.9	.72	1.4
12	4.9	4.8	4.2	5.2	4.9	6.2	11	9.8	15	3.8	.64	1.4
13	4.9	4.8	4.3	5.1	5.1	6.1	11	10	14	3.6	.57	1.5
14	4.9	4.0	4.3	4.8	5.3	4.4	10	10	13	2.8	.57	1.7
15	4.9	5.4	4.4	4.5	5.1	5.8	9.1	11	11	1.8	.72	2.0
16	4.8	5.0	4.4	4.6	5.3	5.8	8.6	11	10	1.7	.72	2.2
17	4.9	4.8	4.2	4.7	5.4	5.9	8.2	12	9.2	1.7	.57	2.5
18	4.8	4.8	3.8	4.5	5.2	5.5	7.8	12	9.0	1.5	.93	2.3
19	4.8	4.8	3.8	4.7	5.0	5.8	7.4	12	8.1	1.5	1.1	2.5
20	4.7	4.6	3.8	4.8	5.5	6.0	7.0	12	7.5	1.2	1.4	2.7
21	4.7	4.6	3.7	5.1	6.1	5.8	6.7	11	6.7	.93	1.6	2.8
22	4.7	4.9	3.8	5.1	5.9	5.9	6.3	11	5.7	.93	1.1	2.8
23	4.8	5.1	4.0	4.6	4.7	6.1	6.1	11	5.3	1.6	1.0	2.8
24	4.8	5.1	4.2	3.6	5.1	6.5	6.5	11	5.3	1.8	1.4	2.8
25	4.8	5.5	4.0	4.6	3.9	6.2	7.2	11	4.8	1.7	2.1	2.8
26	5.3	3.9	4.0	3.9	5.7	6.0	8.0	10	4.4	1.6	2.5	2.8
27	5.1	3.5	4.2	4.9	5.4	6.5	8.3	10	4.4	1.2	2.2	2.8
28	5.0	3.6	4.3	4.8	6.1	5.5	7.9	9.2	4.3	.93	2.1	2.8
29	5.3	3.8	4.1	4.9	---	6.4	7.7	8.2	4.3	.79	2.1	3.0
30	5.2	4.0	4.1	4.9	---	6.4	7.6	7.7	4.1	.79	2.1	3.2
31	5.2	---	4.0	5.4	---	6.1	---	6.7	---	.64	2.1	---
TOTAL	153.7	141.2	129.7	157.5	142.8	178.1	307.1	300.9	249.9	89.51	35.89	64.6
MEAN	4.96	4.71	4.18	5.08	5.10	5.75	10.2	9.71	8.33	2.89	1.16	2.15
MAX	5.8	5.5	4.7	10	6.1	6.5	24	12	17	6.9	2.5	3.2
MIN	3.4	3.5	3.7	3.6	3.9	3.9	6.1	6.7	4.1	.64	.43	1.1
AC-FT	305	280	257	312	283	353	609	597	496	178	71	128

CAL YR 1976 TOTAL 8814.20 MEAN 24.1 MAX 235 MIN 1.7 AC-FT 17480
WTR YR 1977 TOTAL 1950.90 MEAN 5.34 MAX 24 MIN .43 AC-FT 3870

10353500 QUINN RIVER NEAR McDERMITT, NV

LOCATION.--Lat 41°46'30", long 117°48'15", in SW¼ sec.15, T.45 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on left bank 1.5 mi (2.4 km) upstream from Flat Creek and 15.5 mi (24.9 km) south of McDermitt.

DRAINAGE AREA.--1,100 mi² (2,849 km²), approximately.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,240 ft (1,292 m), from river-profile map.

REMARKS.--Records fair. Several diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--29 years, 34.2 ft³/s (0.969 m³/s), 24,780 acre-ft/yr (30.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) Apr. 27, 1952, gage height, 8.39 ft (2.557 m); no flow for some days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.3 ft³/s (0.263 m³/s) May 9, gage height, 1.17 ft (0.357 m); minimum daily 0.34 ft³/s (0.010 m³/s) Sept. 13-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.66	1.2	1.6	1.7	1.2	1.3	4.2	1.0	1.6	.47	.47
2	.75	.66	1.2	1.6	1.7	1.1	1.3	4.3	.98	2.0	.47	.42
3	.70	.66	1.2	1.7	1.7	1.1	1.3	4.7	.91	2.2	.47	.41
4	.68	.66	1.2	1.7	1.7	1.1	1.2	4.8	.93	2.3	.50	.39
5	.66	.66	1.2	1.7	1.7	1.0	1.7	5.4	1.1	2.1	.71	.38
6	.66	.66	1.2	1.7	1.7	1.1	1.5	6.0	.98	2.2	.64	.38
7	.66	.66	1.2	1.7	1.7	1.1	1.1	6.2	1.0	1.8	.50	.39
8	.66	.66	1.2	1.6	1.7	1.1	.92	6.7	1.2	1.6	.71	.38
9	.66	.66	1.2	1.6	1.7	1.3	.78	6.5	2.8	1.0	.48	.37
10	.66	.66	1.3	1.5	1.7	1.1	.92	1.6	2.0	.79	.45	.38
11	.66	.66	1.3	1.5	1.5	1.1	1.2	1.4	1.7	.82	.46	.36
12	.66	.66	1.3	1.4	1.5	1.3	1.4	1.2	1.2	.50	.42	.36
13	.67	.66	1.3	1.4	1.6	1.4	1.6	1.0	1.2	.64	.42	.36
14	.69	.80	1.4	1.3	1.5	1.2	1.7	1.0	1.0	.57	.43	.34
15	.73	.90	1.4	1.3	1.4	1.1	1.7	1.1	1.0	.49	.44	.34
16	.71	1.0	1.4	1.2	1.5	1.1	1.8	1.3	.88	.50	.43	.34
17	.73	.96	1.4	1.2	1.5	.99	1.6	1.7	.85	.64	.41	.34
18	.73	.99	1.5	1.1	1.4	.99	1.6	1.7	.99	.85	.40	.39
19	.73	.98	1.5	1.1	1.4	.99	1.6	2.3	1.1	1.1	.41	.40
20	.73	.99	1.5	1.1	1.4	.92	1.4	3.3	2.0	1.1	.44	.40
21	.73	1.1	1.5	1.1	1.3	.85	1.4	3.8	1.8	.78	.45	.40
22	.73	1.1	1.5	1.2	1.1	.85	1.3	3.5	1.6	.50	.43	.40
23	.73	1.1	1.5	1.6	.97	1.3	1.2	1.3	2.3	.48	.38	.42
24	.74	1.1	1.5	1.7	.95	1.5	1.3	1.1	2.3	.78	.39	.45
25	.73	1.1	1.5	1.7	1.0	1.4	1.4	1.1	1.9	.92	.44	.41
26	.73	.99	1.6	2.0	1.1	1.3	1.3	1.0	1.3	.85	.49	.40
27	.73	.99	1.6	2.0	1.2	1.3	1.6	1.0	.98	.92	.50	.38
28	.73	1.1	1.6	2.0	1.2	1.2	2.2	.97	1.4	1.1	.50	.44
29	.73	1.1	1.6	1.9	---	1.2	2.5	.92	1.5	.92	.48	.48
30	.71	1.1	1.6	1.9	---	1.3	3.5	1.0	1.6	.92	.47	.48
31	.66	---	1.6	1.9	---	1.3	---	.97	---	.50	.46	---
TOTAL	21.88	25.98	43.2	48.0	40.52	35.79	45.32	83.06	41.50	33.47	14.65	11.86
MEAN	.71	.87	1.39	1.55	1.45	1.15	1.51	2.68	1.38	1.08	.47	.40
MAX	.80	1.1	1.6	2.0	1.7	1.5	3.5	6.7	2.8	2.3	.71	.48
MIN	.66	.66	1.2	1.1	.95	.85	.78	.92	.85	.48	.38	.34
AC-FT	43	52	86	95	80	71	90	165	82	66	29	24

CAL YR 1976 TOTAL 10209.69 MEAN 27.9 MAX 206 MIN .58 AC-FT 20250
WTR YR 1977 TOTAL 445.23 MEAN 1.22 MAX 6.7 MIN .34 AC-FT 883

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW¼SE¼ sec.31, T.47 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on left bank 2.8 mi (4.5 km) downstream from Little Creek, 5 mi (8.0 km) upstream from Kings River Ranch, and 36 mi (57.9 km) northwest of Orovada.

DRAINAGE AREA.--20.5 mi^2 (53.1 km^2)

PERIOD OF RECORD.--October 1962 to September 1968, October 1976 to September 1977.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft (1,430 m) from topographic map.

REMARKS.--Records good except those for winter months, which are fair. No diversion or regulation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.-- 7 years (1962-68, 1977), 3.82 ft^3/s (0.108 m^3/s), 2,770 acre-ft/yr (3.42 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 770 ft^3/s (21.8 m^3/s) Feb. 1, 1963, gage height 4.00 ft (1.219 m) from rating curve extended above 24 ft^3/s (0.680 m^3/s) on basis of estimate by slope-area method; no flow Aug. 9, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.6 ft^3/s (0.215 m^3/s) June 1, gage height 1.78 ft (0.543 m); maximum gage height 1.91 ft (0.582 m) Mar. 2 (backwater from ice); minimum, 0.55 ft^3/s (0.016 m^3/s) Aug. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.8	1.4	1.3	2.2	3.0	2.4	3.2	6.8	1.5	.66	1.0
2	2.0	1.8	1.4	1.4	2.0	2.8	2.7	3.0	6.5	2.3	.62	.94
3	2.3	1.8	1.4	1.5	2.0	3.0	2.7	2.9	6.0	2.9	.82	.88
4	1.7	1.8	1.6	1.6	1.8	3.3	3.0	2.9	6.2	2.3	.94	.82
5	1.6	1.8	1.5	1.8	2.1	3.2	3.2	2.9	5.5	1.7	.94	.76
6	1.7	1.8	1.2	1.4	2.3	2.9	3.7	2.9	5.2	1.5	.88	.76
7	1.6	1.8	1.3	1.2	2.3	2.3	3.7	3.0	5.2	1.4	1.0	.70
8	1.6	1.8	1.6	1.5	2.3	2.3	4.5	2.7	5.2	1.3	1.1	.70
9	1.6	1.9	1.9	1.8	2.3	2.7	5.2	3.0	5.0	1.3	1.0	.70
10	1.6	1.9	1.6	2.0	2.2	3.3	3.9	3.5	5.0	1.3	.88	.76
11	1.6	1.9	1.1	2.1	2.3	3.2	3.5	3.2	5.5	1.2	.82	.70
12	1.6	1.9	1.2	2.0	2.2	2.7	3.7	3.7	4.5	1.2	.76	.70
13	1.6	1.9	1.4	2.1	2.3	3.0	4.8	3.9	4.1	1.2	.82	.76
14	1.6	2.0	1.5	2.1	2.3	3.2	3.2	3.7	4.1	1.2	.82	.76
15	1.6	2.0	1.5	2.0	2.3	3.3	3.5	4.1	3.7	1.1	.82	.76
16	1.6	2.0	1.4	2.0	2.3	3.2	5.5	4.1	3.2	1.0	.76	.94
17	1.6	2.0	1.1	2.1	2.2	3.0	5.8	4.1	3.0	.88	.88	1.2
18	1.6	1.9	1.0	2.1	2.3	3.3	4.1	3.9	3.5	.88	1.0	1.1
19	1.7	1.9	1.0	2.2	2.3	3.3	3.2	3.7	3.7	.88	1.0	.94
20	1.7	1.9	1.0	2.2	2.2	2.3	3.5	3.9	3.3	.88	1.1	1.1
21	1.7	1.9	1.0	2.2	2.6	2.3	3.7	4.3	3.0	.88	1.0	1.1
22	1.8	1.9	1.0	2.0	3.0	2.4	3.9	4.8	2.7	.88	.94	1.1
23	1.8	1.9	1.2	2.1	2.2	2.6	4.5	6.0	2.4	.88	.88	1.1
24	1.8	1.9	1.3	1.3	2.5	2.4	4.8	5.2	2.2	.94	1.0	1.2
25	1.8	1.9	1.2	1.6	2.2	2.7	4.3	5.2	1.9	.94	1.6	1.0
26	1.9	1.2	1.2	1.6	3.0	2.9	4.3	5.2	1.8	.82	1.9	.94
27	1.9	.80	1.3	1.5	2.9	2.4	3.5	5.5	1.7	.76	1.3	.94
28	1.8	.90	1.3	1.9	2.9	3.0	3.5	5.5	1.6	.66	1.2	1.0
29	1.9	1.0	1.2	2.1	---	2.9	3.5	5.8	1.5	.66	1.1	1.2
30	1.9	1.2	1.2	2.2	---	3.2	3.2	6.0	1.5	.70	1.1	1.1
31	1.8	---	1.2	2.3	---	2.9	---	6.5	---	.70	1.0	---
TOTAL	53.6	52.20	40.2	57.2	65.5	89.0	115.0	128.3	115.5	36.74	30.64	27.66
MEAN	1.73	1.74	1.30	1.85	2.34	2.87	3.83	4.14	3.85	1.19	.99	.92
MAX	2.3	2.0	1.9	2.3	3.0	3.3	5.8	6.5	6.8	2.9	1.9	1.2
MIN	1.6	.80	1.0	1.2	1.8	2.3	2.4	2.7	1.5	.66	.62	.70
AC-FT	106	104	80	113	130	177	228	254	229	73	61	55

WTR YR 1977 TOTAL 811.54 MEAN 2.22 MAX 6.8 MIN .62 AC-FT 1610

10353700 LEONARD CREEK NEAR DENIO, NV

LOCATION.--Lat 41°31'40", long 118°42'45", in SE¼ sec.25, T.42 N., R.28 E., Humboldt County, Hydrologic Unit 16040202, on right bank 0.3 mi (0.5 km) upstream from concrete diversion structure, 0.7 mi (1.1 km) upstream from Leonard Creek ranch buildings, about 18 mi (29 km) upstream from Quinn River, and 32 mi (51 km) south of Denio.

DRAINAGE AREA.--52 mi^2 (135 km^2), approximately.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,300 ft (1,310 m) from topographic AMS map. Prior to Aug. 21, 1969, at site 50 ft (15 m) downstream at datum 0.28 ft (0.085 m) lower.

REMARKS.--Records good except those for winter periods, which are fair. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--17 years, 5.15 ft^3/s (0.146 m^3/s), 3,730 acre-ft/yr (4.60 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 612 ft^3/s (17.3 m^3/s) Feb. 1, 1963, gage height, 4.98 ft (1.518 m), from rating curve extended above 15 ft^3/s (0.42 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of each day July 23 to Aug. 5, 1961, Jan. 11, 12, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft^3/s (1.30 m^3/s) Aug. 19 (time unknown), 2.10 ft (0.640 m) from floodmarks; no other peak above base of 15 ft^3/s (0.425 m^3/s); minimum discharge, 0.59 ft^3/s (0.017 m^3/s) Aug. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.4	2.5	2.1	2.4	2.2	2.5	3.6	6.1	2.0	1.4	1.3
2	2.4	2.4	2.5	2.2	2.5	2.4	2.9	3.5	6.2	2.7	1.3	1.2
3	2.9	2.4	2.4	2.2	2.7	2.6	2.9	3.4	5.8	2.9	1.5	1.1
4	2.3	2.4	2.4	2.3	2.6	3.2	3.5	3.1	5.8	2.3	1.6	1.1
5	2.3	2.4	2.2	2.2	2.6	3.0	3.8	3.3	5.2	2.2	1.5	1.1
6	2.3	2.4	2.1	2.2	2.6	3.0	4.3	3.3	5.1	2.0	1.5	1.1
7	2.2	2.4	2.1	2.2	2.7	2.9	4.3	3.7	5.2	2.0	1.5	1.0
8	2.2	2.4	2.3	2.1	2.7	2.8	4.5	3.3	5.1	1.9	1.6	1.0
9	2.2	2.4	2.4	2.1	2.7	2.6	4.1	4.8	5.2	1.8	1.4	1.1
10	2.2	2.5	2.3	2.2	2.7	2.5	3.7	5.9	5.3	1.8	1.4	1.1
11	2.2	2.5	2.2	2.2	2.6	2.5	3.4	7.6	5.8	1.7	1.3	1.1
12	2.3	2.5	2.2	2.2	2.7	2.6	3.5	8.3	4.6	1.6	1.2	1.2
13	2.2	2.4	2.3	2.2	2.8	2.6	3.8	6.4	4.8	1.6	1.0	1.2
14	2.2	2.8	2.2	2.3	2.8	2.5	3.4	5.8	4.7	1.8	.94	1.2
15	2.2	2.7	2.2	2.3	2.6	2.5	3.5	6.0	4.4	1.8	.94	1.3
16	2.3	2.7	2.2	2.3	2.7	2.5	3.7	5.9	4.2	1.8	.88	1.5
17	2.3	2.5	2.0	2.3	2.7	2.6	3.8	6.1	3.8	1.7	1.1	1.7
18	2.3	2.5	1.8	2.4	2.9	2.7	3.7	5.9	4.0	1.7	1.4	1.5
19	2.3	2.5	1.8	2.4	2.8	2.9	3.4	5.8	3.8	1.8	2.8	1.4
20	2.3	2.6	1.7	2.4	2.8	2.8	3.6	6.0	3.7	1.8	1.8	1.5
21	2.3	2.6	1.6	2.4	2.7	2.9	3.5	6.3	3.4	1.8	1.4	1.6
22	2.4	2.6	1.8	2.5	2.2	3.1	3.7	6.6	3.0	1.8	1.3	1.5
23	2.4	2.6	2.0	2.4	2.5	3.2	3.6	10	2.7	1.8	1.1	1.5
24	2.3	2.6	2.1	2.4	2.8	2.9	3.7	7.5	2.4	1.7	1.4	1.6
25	2.4	2.6	2.1	2.2	3.0	2.8	3.5	7.1	2.3	1.7	1.8	1.4
26	2.5	2.0	2.2	2.2	2.7	2.6	3.5	7.2	2.2	1.7	1.8	1.4
27	2.4	1.3	2.2	2.2	2.7	2.8	3.1	6.9	2.0	1.7	1.4	1.4
28	2.5	1.8	2.1	2.2	2.6	2.2	3.0	6.5	2.0	1.6	1.4	1.4
29	2.5	2.2	2.0	2.2	---	2.5	2.9	6.3	1.9	1.5	1.4	1.6
30	2.4	2.4	2.0	2.2	---	3.0	2.9	6.1	1.8	1.6	1.3	1.6
31	2.4	---	2.0	2.3	---	3.3	---	6.1	---	1.5	1.3	---
TOTAL	72.2	72.5	65.9	70.0	74.8	84.7	105.7	178.3	122.5	57.3	43.66	39.7
MEAN	2.33	2.42	2.13	2.26	2.67	2.73	3.52	5.75	4.08	1.85	1.41	1.32
MAX	2.9	2.8	2.5	2.5	3.0	3.3	4.5	10	6.2	2.9	2.8	1.7
MIN	2.1	1.3	1.6	2.1	2.2	2.2	2.5	3.1	1.8	1.5	.88	1.0
AC-FT	143	144	131	139	148	168	210	354	243	114	87	79

CAL YR 1976 TOTAL 1352.90 MEAN 3.70 MAX 8.8 MIN 1.3 AC-FT 2680
WTR YR 1977 TOTAL 987.26 MEAN 2.70 MAX 10 MIN .88 AC-FT 1960

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--Lat 41°01'00", long 119°21'00", in E½ sec.11, T.36 N., R.23 E., Washoe County, Hydrologic Unit 16040203, on left bank 150 ft (50 m) east of State Highway 34 and 25 mi (40 km) north of Gerlach.

DRAINAGE AREA.--31 mi^2 (80 km^2), approximately.

PERIOD OF RECORD.--Water years 1963-73 (annual maximum), August 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), approximately (from topographic map). July 1, 1963, to Aug. 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft (0.305 m) lower.

REMARKS.--Records fair. No diversion or regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 109 ft^3/s (3.09 m^3/s), June 8, 1977, gage height, 2.30 ft (0.701 m); no flow most of the time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of unknown date reached a stage of 9.4 ft (2.87 m), present datum, from floodmarks, estimated discharge, 3,100 ft^3/s (8.78 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 109 ft^3/s (3.09 m^3/s) June 8, gage height, 2.30 ft (0.701 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	4.7	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.75	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.01	.03	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.02	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.02	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.03	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.22	6.63	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.007	.22	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.03	4.7	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.4	13	.00	.00	.00

CAL YR 1976 TOTAL 1.54 MEAN .004 MAX .12 MIN .00 AC-FT 3.1
WTR YR 1977 TOTAL 6.85 MEAN .019 MAX 4.7 MIN .00 AC-FT 14

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi (0.3 km) upstream from maximum flow line of Oakley Reservoir, 5 mi (8 km) upstream from Trapper Creek, 5 mi (8 km) south of Oakley Dam, and 9 mi (14.5 km) southwest of Oakley.

DRAINAGE AREA.--633 mi^2 (1,640 km^2). Mean altitude, 6,030 ft (1,837.9 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft (1,453.8 m) by barometer. Prior to Aug. 29, 1912, at site 200 ft (60.9 m) downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Decreed water rights are reported to apply to about 2,700 acres (1,090 hm^2) above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

AVERAGE DISCHARGE.-- 63 years, 46.5 ft^3/s (1.32 m^3/s), 33,690 acre-ft/yr (41.54 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft^3/s (91.8 m^3/s) Feb. 11, 1962, gage height, 9.3 ft (2.83 m), from rating curve extended above 200 ft^3/s (5.66 m^3/s) on basis of slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106 ft^3/s (3.00 m^3/s) Apr. 10, gage height, 2.55 ft (0.777 m); minimum daily, 5.0 ft^3/s (0.14 m^3/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	31	28	27	29	35	44	12	51	6.6	13	12
2	24	31	30	28	29	35	44	13	44	6.4	12	12
3	30	31	32	30	27	32	43	13	38	10	12	11
4	32	31	33	29	28	32	43	15	34	11	12	10
5	33	31	33	27	27	39	44	14	33	9.7	12	9.5
6	29	31	31	24	27	44	52	19	31	8.0	12	8.8
7	31	32	26	18	29	49	68	27	27	7.8	11	8.6
8	29	31	29	19	30	48	80	33	19	8.1	11	8.6
9	28	31	36	20	32	51	86	39	20	8.2	10	8.0
10	27	31	33	21	31	44	93	35	33	7.0	8.6	8.6
11	27	30	29	25	32	42	84	33	37	6.5	8.0	9.5
12	27	33	27	27	32	42	80	31	49	6.5	7.6	9.5
13	28	31	28	28	33	46	75	30	39	5.4	7.3	9.5
14	27	32	30	29	34	44	73	28	29	5.5	6.5	9.5
15	30	40	27	28	34	39	63	25	29	5.0	6.3	11
16	28	41	25	29	35	39	57	31	25	5.3	7.0	12
17	28	39	26	30	36	41	52	43	20	5.4	6.3	15
18	27	39	24	31	35	39	37	42	19	5.3	7.6	15
19	27	37	21	32	34	39	26	38	20	5.1	9.8	16
20	27	34	21	31	34	38	27	35	19	7.9	12	16
21	28	34	20	32	35	39	30	35	23	6.8	10	17
22	28	36	19	32	36	39	26	35	23	7.8	12	17
23	29	34	25	33	34	41	17	42	20	8.4	10	18
24	29	34	29	31	33	45	11	57	19	13	9.2	17
25	30	33	29	26	34	47	12	82	17	15	9.2	17
26	30	30	32	24	34	45	12	94	14	15	12	16
27	30	20	33	26	34	44	11	90	13	14	13	15
28	31	17	29	28	34	43	13	82	11	17	13	15
29	31	17	27	28	---	43	12	75	9.7	16	13	15
30	31	24	24	27	---	44	12	67	8.7	16	13	14
31	31	---	27	27	---	44	---	58	---	15	13	---
TOTAL	889	946	863	847	902	1242	1327	1273	774.4	284.7	319.4	381.1
MEAN	28.7	31.5	27.8	27.3	32.2	41.7	44.2	41.1	25.8	9.18	10.3	12.7
MAX	33	41	36	33	36	51	93	94	51	17	13	18
MIN	22	17	19	18	27	32	11	12	8.7	5.0	6.3	8.0
AC-FT	1760	1880	1710	1680	1790	2560	2630	2520	1540	565	634	756

CAL YR 1976 TOTAL 23349.0 MEAN 63.8 MAX 395 MIN 11 AC-FT 46310
WTR YR 1977 TOTAL 10098.6 MEAN 27.7 MAX 94 MIN 5.0 AC-FT 20030

13082500 GOOSE CREEK ABOVE TRAPPER CREEK NEAR OAKLEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1949 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV											
06...	1100	31	437	8.7	2.0	--	--	--	--	--	--
DEC											
15...	0930	22	360	--	.0	--	--	--	--	--	--
JAN											
26...	1030	28	332	--	.0	--	--	--	--	--	--
MAR											
02...	0940	46	337	--	.0	--	--	--	--	--	--
APR											
13...	1145	77	211	--	8.5	--	--	--	--	--	--
MAY											
18...	1100	42	514	--	5.5	--	--	--	--	--	--
JUN											
16...	1100	26	517	--	15.5	--	--	--	--	--	--
JUL											
25...	1330	16	459	--	23.0	--	--	--	--	--	--
SEP											
15...	1330	12	429	8.3	14.5	170	51	11	19	.6	7.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV										
06...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
13...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	210	0	21	17	.3	34	264	8.55	.02	.08

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, Hydrologic Unit 17040213, on right bank in canyon, 630 ft (192 m) downstream from bridge on U.S. Highway 93, 550 ft (168 m) downstream from Shoshone Creek, and 5 mi (8 km) north of San Jacinto.

DRAINAGE AREA.--1,450 mi^2 (3,760 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as Salmon Falls "River."

REVISED RECORDS.--WSP 1934: 1943 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m), by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft (11 m) upstream at same datum.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres (7,370 hm^2), 1966 determination. Dam of Salmon River Canal Co. is 15 mi (24 km) downstream (see sta 13106500).

AVERAGE DISCHARGE.-- 65 years (1910-16, 1918-77), 139 ft^3/s (3.94 m^3/s), 100,700 acre-ft/yr (124 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,430 ft^3/s (68.8 m^3/s) May 18, 1975, gage height, 10.83 ft (3.301 m): maximum gage height, 12.65 ft (3.856 m) Feb. 12, 1962; minimum discharge, 2.6 ft^3/s (0.074 m^3/s) Sept. 4, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 269 ft^3/s (7.62 m^3/s) June 10, gage height 5.82 ft (1.774 m) minimum daily 18 ft^3/s (0.510 m^3/s) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	63	57	52	58	70	77	116	168	37	27	28
2	63	63	55	55	57	67	78	123	166	43	27	27
3	70	63	56	58	52	64	72	123	181	48	29	26
4	75	64	58	57	55	68	67	121	188	56	24	26
5	72	64	56	54	52	68	72	121	182	53	18	25
6	67	63	53	48	54	70	102	129	171	47	21	26
7	64	63	61	34	58	69	143	141	169	41	31	24
8	63	63	62	37	60	70	166	145	179	37	30	27
9	63	63	62	39	63	70	186	145	218	35	25	29
10	63	63	57	42	62	68	226	135	255	34	24	32
11	63	63	53	49	63	63	188	131	228	34	26	34
12	62	64	51	54	64	68	164	128	210	33	26	35
13	62	63	54	56	67	70	146	118	206	33	26	35
14	63	63	51	57	68	70	145	108	168	32	25	34
15	64	64	53	55	68	67	135	102	155	33	27	36
16	64	65	51	58	69	68	119	119	146	35	28	41
17	63	68	43	60	72	69	126	141	135	35	27	43
18	63	69	43	62	69	69	133	135	108	35	33	46
19	63	68	43	63	68	68	119	148	101	35	29	42
20	63	67	39	62	68	69	113	145	95	36	25	42
21	63	67	34	63	70	69	108	143	88	36	27	44
22	62	65	42	64	74	69	104	148	82	36	26	44
23	63	65	53	65	70	72	105	171	72	36	35	49
24	63	65	53	63	68	89	118	212	67	42	31	50
25	63	64	54	52	67	98	124	234	60	46	30	48
26	64	57	60	47	67	90	131	228	54	43	33	47
27	64	38	60	51	67	86	141	218	51	40	36	43
28	64	39	51	55	68	88	138	220	44	39	34	43
29	63	47	47	55	---	83	131	206	41	35	32	43
30	64	56	51	53	---	85	119	200	38	34	31	47
31	64	---	53	53	---	81	---	181	---	27	28	---
TOTAL	1985	1849	1616	1673	1798	2275	3796	4735	4026	1186	871	1116
MEAN	64.0	61.6	52.1	54.0	64.2	73.4	127	153	134	38.3	28.1	37.2
MAX	75	69	62	65	74	98	226	234	255	56	36	50
MIN	58	38	34	34	52	63	67	102	38	27	18	24
AC-FT	3940	3670	3210	3320	3570	4510	7530	9390	7990	2350	1730	2210

CAL YR 1976 TOTAL 62344 MEAN 170 MAX 855 MIN 28 AC-FT 123700
WTR YR 1977 TOTAL 26926 MEAN 73.8 MAX 255 MIN 18 AC-FT 53410

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1953 to September 1962, October 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV											
07...	1030	62	277	--	5.0	--	--	--	--	--	--
DEC											
18...	1015	36	295	--	.5	--	--	--	--	--	--
JAN											
29...	1015	51	257	--	.0	--	--	--	--	--	--
MAR											
07...	1330	69	234	--	6.5	--	--	--	--	--	--
APR											
12...	0910	166	130	--	8.0	--	--	--	--	--	--
MAY											
20...	1000	142	240	--	7.5	--	--	--	--	--	--
JUN											
18...	0945	107	190	--	12.5	--	--	--	--	--	--
JUL											
27...	0740	40	292	--	16.0	--	--	--	--	--	--
SEP											
12...	1710	32	278	8.8	20.0	110	31	6.9	17	.7	7.2

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV										
07...	--	--	--	--	--	--	--	--	--	--
DEC										
18...	--	--	--	--	--	--	--	--	--	--
JAN										
29...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	--	--	--	--	--	--	--	--	--	--
APR										
12...	--	--	--	--	--	--	--	--	--	--
MAY										
20...	--	--	--	--	--	--	--	--	--	--
JUN										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	--	--	--	--	--	--	--	--	--	--
SEP										
12...	140	7	16	8.0	.5	42	205	18.0	.07	.03

13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi (12.1 km) west of Rogerson, and at mile 46.0 (74.0 km).

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft (1,507.5 m) above mean sea level.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft (225 hm³) between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (24.4 m) maximum operating level. Dead storage, 48,000 acre-ft (59.2 hm³). Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 166,000 acre-ft (205 hm³) June 24, 1975 (gage height, 75.00 ft or 22.860 m); minimum observed, 125 acre-ft (0.154 hm³) Sept. 21 to Oct. 5, 1934 (gage height, 0.1 ft or 0.03 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 86,000 acre-ft (107 hm³) Apr. 27 (gage height, 47.15 ft or 14.371 m); minimum observed, 23,400 acre-ft (28.9 hm³) Aug. 30 to Sept. 19 (gage height, 16.10 ft or 4.907 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

16.0	23,200	40.0	69,000
20.0	30,000	50.0	93,800
30.0	48,800		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79200	79500	80100	80400	81000	82000	83200	85000	79400	67000	42500	23400
2	79200	79500	80100	80400	81000	82000	83400	84400	79800	66200	41900	23400
3	79200	79600	80100	80400	81000	82000	83400	84000	79500	65600	41200	23400
4	79200	79600	80100	80400	81100	82200	83500	83400	79400	65300	40200	23400
5	79200	79600	80100	80400	81100	82200	83500	82900	79200	64400	39800	23400
6	79200	79600	80200	80400	81100	82300	83600	82500	78900	63800	39100	23400
7	79200	79600	80200	80500	81100	82400	83600	81900	78500	63100	38500	23400
8	79300	79600	80200	80500	81200	82400	83600	81400	78200	62500	37800	23400
9	79300	79800	80200	80500	81200	82400	83800	81200	77700	61900	37200	23400
10	79300	79800	80200	80500	81200	82400	84200	80800	77200	61000	36600	23400
11	79300	79800	80200	80500	81200	82400	84600	80500	76900	60200	36000	23400
12	79400	79800	80200	80500	81200	82400	84800	80100	76600	59500	35400	23400
13	79400	79800	80200	80500	81300	82400	84900	79900	76400	58100	34800	23400
14	79400	79800	80200	80500	81300	82500	85000	79500	75900	57600	34100	23400
15	79400	79900	80200	80500	81300	82500	85300	79300	75600	56500	33400	23400
16	79400	79900	80200	80500	81400	82500	85500	78900	75500	55700	32700	23400
17	79400	79900	80400	80500	81400	82500	85500	78600	75500	54700	32000	23400
18	79400	80000	80400	80500	81600	82600	85600	78500	74700	53300	31200	23400
19	79400	80000	80400	80500	81600	82600	85800	78200	74300	52800	30600	23400
20	79400	80000	80400	80500	81600	82600	85900	78000	73900	52000	29800	23500
21	79400	80000	80400	80500	81700	82600	86000	77900	73400	51000	29200	23500
22	79400	80100	80400	80700	81700	82800	86100	77800	73000	50200	28600	23500
23	79400	80100	80400	80700	81800	82800	86200	77600	72500	49300	27700	23500
24	79400	80100	80400	80700	81800	82900	86400	77600	71900	48500	27000	23500
25	79400	80100	80400	80700	81900	82900	86500	77600	71300	47600	26300	23600
26	79400	80100	80400	80700	81900	83000	86500	77700	70800	47000	25700	23700
27	79400	80100	80400	80700	81900	83000	86600	78100	70100	46200	24900	23800
28	79400	80100	80400	81000	82000	83000	86200	78500	69300	45400	24200	23900
29	79400	80100	80400	81000	---	83000	85800	78700	68500	44500	23600	24000
30	79400	80100	80400	81000	---	83200	85400	78900	67800	43900	23400	24000
31	79400	---	80400	81000	---	83200	---	79300	---	43200	23400	---
MAX	79400	80100	80400	81000	82000	83200	86600	85000	79800	67000	42500	24000
MIN	79200	79500	80100	80400	81000	82000	83200	77600	67800	43200	23400	23400
(†)	44.15	44.45	44.55	44.80	45.25	45.75	46.65	44.10	39.10	27.20	16.10	16.50
(‡)	+200	+700	+300	+600	+1000	+1200	+2200	-6100	-11500	-24600	-19800	+600

CAL YR 1976 MAX 161600 MIN 78700 ‡ -28600
WTR YR 1977 MAX 86600 MIN 23400 ‡ -55200

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet.

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi (3 km) upstream from McDonald Creek and 0.5 mi (0.8 km) south of Rowland.

DRAINAGE AREA.--382 mi² (989 km²). Area at crest-stage site, 380 mi² (984 km²).

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft (1,372 m), from topographic map. June 1913 to September 1918, non-recording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi (5 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Minor diversions for irrigation above station. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--16 years, 120 ft³/s (3.400 m³/s), 86,940 acre-ft/yr (107 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s (60.0 m³/s) Feb. 11, 1962, gage height, 13.0 ft (3.96 m) site and datum then in use; minimum, 5 ft³/s (0.14 m³/s) Aug. 12, 13, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 8	2200	*298	8.44	4.39	1.338
June 9	0200	250	7.08	4.18	1.274

Minimum discharge, 6.1 ft³/s (0.17 m³/s) Sept. 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	32	30	17	22	30	56	94	124	30	11	8.9
2	32	32	29	17	22	30	49	98	136	30	10	8.5
3	73	32	27	16	21	30	50	94	140	35	9.9	7.9
4	61	32	26	15	21	33	59	85	140	32	9.9	7.6
5	47	32	25	14	21	30	130	82	148	30	11	7.3
6	41	31	23	13	22	32	177	79	146	27	11	6.9
7	38	31	23	13	23	34	201	78	146	25	11	6.6
8	36	30	24	13	23	35	232	79	158	22	11	6.3
9	34	30	23	14	24	38	236	85	186	21	10	6.1
10	33	30	22	15	24	37	162	85	170	20	9.5	6.3
11	33	30	21	15	25	35	144	85	152	19	9.2	6.3
12	32	29	20	16	24	39	140	84	140	18	8.9	6.3
13	31	25	21	17	26	44	140	78	126	17	8.5	6.3
14	31	31	20	17	26	36	124	74	112	17	8.5	6.9
15	30	31	19	17	26	38	105	74	102	16	8.9	9.5
16	30	35	17	17	27	40	115	76	91	15	8.9	8.5
17	30	36	16	18	28	42	130	79	81	14	8.5	8.9
18	30	35	16	18	30	36	110	85	76	13	8.5	9.5
19	30	34	17	19	30	35	98	89	72	12	9.5	9.2
20	30	32	16	19	31	38	92	86	89	13	9.9	9.2
21	30	30	15	20	33	37	95	91	85	13	9.9	9.9
22	30	32	16	20	34	46	98	92	70	14	10	10
23	30	29	17	20	33	64	102	106	61	15	9.5	11
24	30	28	18	19	32	76	105	130	53	17	8.5	11
25	30	32	19	19	29	64	106	150	48	17	8.5	11
26	31	28	19	19	30	57	105	142	44	16	14	11
27	32	20	19	20	30	61	100	148	41	14	14	11
28	32	25	18	20	30	52	95	142	37	14	11	11
29	35	27	17	20	---	50	94	130	34	12	9.9	11
30	35	29	17	21	---	47	92	122	32	11	9.5	13
31	34	---	17	21	---	49	---	117	---	11	9.2	---
TOTAL	1075	910	627	539	747	1315	3542	3039	3040	580	307.6	262.9
MEAN	34.7	30.3	20.2	17.4	26.7	42.4	118	98.0	101	18.7	9.92	8.76
MAX	73	36	30	21	34	76	236	150	186	35	14	13
MIN	24	20	15	13	21	30	49	74	32	11	8.5	6.1
AC-FT	2130	1800	1240	1070	1480	2610	7030	6030	6030	1150	610	521

CAL YR 1976 TOTAL 38483.0 MEAN 105 MAX 560 MIN 13 AC-FT 76330
WTR YR 1977 TOTAL 15984.5 MEAN 43.8 MAX 236 MIN 6.1 AC-FT 31710

13174000 WILD HORSE RESERVOIR NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'10", long 115°50'35", in NE¼NW¼ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, at Wild Horse Dam on Owyhee River, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi^2 (541 km^2).

PERIOD OF RECORD.--March 1938 to current year. Monthend contents for some periods, published in WSP 1317.

GAGE.--Elevations obtained about three times a month, more frequently during irrigation season, from wire-weight gage on dam. Datum of gage is at mean sea level (levels by Bureau of Indian Affairs).

REMARKS.--Reservoir is formed by concrete-arch dam; storage began Mar. 18, 1938. New dam completed in June 1969, capacity 71,500 acre-ft (88.2 hm^3) between elevations 6,138.50 ft (1,871.015 m), sill of outlet gate, and 6,205 ft (1,891.284 m) spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

COOPERATION.--Most of elevation record furnished by Bureau of Indian Affairs.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed 77,780 acre-ft (95.9 hm^3) May 18, 19, 1975, elevation, 6,207.0 ft (1,891.89 m); no contents at times in each year 1938-41, 1964-65, 1968-69.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 49,170 acre-ft (60.6 hm^3) April 26, elevation 6,196.7 ft (1,888.75 m); minimum observed, 21,840 acre-ft (26.9 hm^3) Sept. 23, elevation 6,182.3 ft (1,884.36 m).

Capacity table (elevation, in feet and contents, in acre-feet)

6,182	21,400	6,190	34,820
6,183	22,870	6,191	36,760
6,184	24,390	6,192	38,780
6,185	25,980	6,193	40,860
6,186	27,630	6,194	43,010
6,187	29,340	6,195	45,230
6,188	31,110	6,196	47,520
6,189	32,940	6,197	49,880

MONTHEND ELEVATION AND CONTENTS, AT 0800, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-ft)	Change in contents (acre-ft)
Sep. 30	6,194.60	44,340	--
Oct. 31	6,194.49	44,090	-250
Nov. 30	6,194.40	43,890	-200
Dec. 31	6,194.50	44,120	+230
CAL YR 1976	--	--	-12,000
Jan. 31	6,194.55	44,230	+110
Feb. 28	6,194.78	44,750	+520
Mar. 31	6,195.44	46,240	+1,490
Apr. 30	6,196.45	48,580	+2,340
May 31	6,193.39	41,690	-6,890
June 30	6,190.80	36,370	-5,320
July 31	6,187.07	29,470	-6,900
Aug. 31	6,183.54	23,700	-5,770
Sep. 30	6,182.00	21,410	-2,290
WTR YR 1976-77	--	--	-22,930

NOTE.--Monthend elevations and contents are interpolated from observations made during the month.

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'15", long 115°50'38", in NE¼SW¼ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank 500 ft (150 m) downstream from Wild Horse Dam, 0.1 mi (0.2 km) upstream from Beaver Creek, 8 mi (13 km) west of Gold Creek, and 12 mi (19 km) southeast of Mountain City.

DRAINAGE AREA.--209 mi² (541 km²).

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft (1,864.995 m), Bureau of Reclamation datum. Prior to Oct. 1, 1936, at site 0.3 mi (0.5 km) upstream at different datum. Nov. 17, 1936, to Oct. 18, 1967, at site 0.1 mi (0.2 km) upstream at different datum. Oct. 19, 1967, to Sept. 30, 1971, temporary gage, 250 ft (76 m) downstream at different datum, while new dam was being constructed 300 ft (91 m) downstream from old dam.

REMARKS.--Records good. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir, capacity, 71,660 acre-ft (88.4 hm³), 0.1 mi (0.2 km) upstream beginning Mar. 18, 1938. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--49 years (1917-25, 1936-77), 42.8 ft³/s (1.212 m³/s), 31,010 acre-ft/yr (38.2 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,810 ft³/s (51.3 m³/s) May 5, 1922, gage height, 10.11 ft (3.082 m), site and datum then in use; no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 177 ft³/s (5.01 m³/s) May 8, gage height, 2.26 ft (0.689 m); minimum, no flow Feb. 2-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	6.0	6.5	5.2	3.0	.80	.47	50	61	125	119	44
2	5.5	6.0	6.8	5.2	.00	.80	.47	94	75	125	110	39
3	5.5	6.0	7.0	5.5	.00	.80	.47	125	88	125	96	33
4	5.5	6.2	7.0	5.7	.00	.80	.47	125	88	123	98	34
5	5.5	6.2	6.8	5.5	.00	.80	.47	151	88	92	96	34
6	5.7	6.2	6.8	5.2	.00	.80	.47	173	88	56	98	43
7	5.7	6.2	6.8	5.2	.00	.80	.47	173	89	66	98	43
8	5.7	6.2	6.8	5.2	.00	.80	.47	177	91	83	98	43
9	5.7	6.2	6.5	5.5	.00	.80	.47	175	89	96	96	43
10	5.7	6.2	6.2	5.5	.00	.80	.47	175	88	96	96	43
11	5.7	6.5	6.2	5.5	.00	.70	.47	173	88	94	96	43
12	5.7	6.5	6.0	5.5	.00	.70	.50	173	89	96	96	43
13	6.0	6.8	6.0	5.5	.00	.70	.50	170	91	94	98	37
14	6.0	6.8	6.0	5.5	.00	.70	.50	170	91	94	99	32
15	6.0	6.8	6.0	5.5	.00	.70	.50	168	91	94	99	32
16	6.0	6.8	5.7	5.5	.00	.55	.50	173	94	96	101	32
17	6.0	6.8	5.7	5.5	.00	.55	.50	170	94	94	103	32
18	6.0	6.8	5.7	5.5	.00	.55	.47	168	96	94	99	32
19	6.0	7.0	5.5	5.5	.00	.55	.44	170	96	94	89	42
20	6.2	7.0	5.5	5.5	.00	.55	.44	173	96	104	83	52
21	6.2	7.0	5.5	5.7	.30	.50	.44	173	98	123	89	52
22	6.2	7.0	5.5	5.7	.80	.50	.44	170	98	123	89	52
23	6.0	6.8	5.5	5.7	.80	.47	.40	144	99	113	91	42
24	6.0	7.3	5.5	5.5	.80	.47	.37	108	107	99	89	33
25	6.2	6.8	5.2	5.5	.80	.47	.37	106	125	99	76	33
26	6.5	6.5	5.2	5.5	.80	.47	24	70	125	99	47	29
27	6.5	6.5	5.2	5.5	.80	.47	50	52	127	106	36	25
28	6.8	6.5	5.2	5.5	.80	.44	50	54	127	121	36	25
29	6.8	6.5	5.2	5.5	---	.44	50	54	125	121	40	25
30	6.0	6.5	5.2	5.5	---	.44	50	54	125	121	45	25
31	6.0	---	5.2	5.5	---	.44	---	54	---	121	44	---
TOTAL	184.5	196.6	183.9	169.8	8.90	19.36	235.54	4165	2927	3187	2650	1117
MEAN	5.95	6.55	5.93	5.48	.32	.62	7.85	134	97.6	103	85.5	37.2
MAX	6.8	7.3	7.0	5.7	3.0	.80	50	177	127	125	119	52
MIN	5.2	6.0	5.2	5.2	.00	.44	.37	50	61	56	36	25
AC-FT	366	390	365	337	18	38	467	8260	5810	6320	5260	2220

CAL YR 1976 TOTAL 22763.40 MEAN 62.2 MAX 191 MIN 5.2 AC-FT 45150
WTR YR 1977 TOTAL 15044.60 MEAN 41.2 MAX 177 MIN .0 AC-FT 29840

13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM, NEAR OWYHEE, NV

LOCATION.--Lat 41°55'20", long 116°04'10", in NW¼ sec.6, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, in Duck Valley Indian Reservation, on right bank 1,000 ft (300 m) downstream from Skull Creek, 1 mi (2 km) upstream from China diversion dam, and 2 mi (3 km) southeast of Owyhee.

DRAINAGE AREA.--458 mi² (1,186 km²).

PERIOD OF RECORD.--March 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft (1,654 m) above mean sea level, unadjusted. Prior to Oct. 1, 1939, at datum 1.48 ft (0.451 m) higher.

REMARKS.--Records good except those for winter months, which are poor. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir. Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--38 years, 145 ft³/s (4.106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft³/s (79.0 m³/s) about May 18, 1975, gage height, 10.84 ft (3.304 m), from inside high water marks; minimum, 1.8 ft³/s (0.051 m³/s) Nov. 16, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 278 ft³/s (7.87 m³/s) Apr. 8, gage height, 4.54 ft (1.384 m); minimum daily 12 ft³/s (0.34 m³/s) Jan. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	31	29	17	18	28	43	95	120	128	124	52
2	37	32	28	17	19	28	40	99	119	130	124	52
3	55	33	27	16	18	30	38	156	140	132	107	46
4	46	31	25	15	19	30	64	171	146	132	101	39
5	40	31	24	13	19	29	141	176	146	131	102	38
6	37	32	23	13	20	30	169	209	141	89	102	37
7	35	31	23	12	21	32	178	205	137	65	102	36
8	34	31	24	12	21	33	228	211	143	61	91	36
9	33	31	23	13	22	36	227	198	180	81	96	35
10	32	30	22	13	22	38	154	196	194	91	99	36
11	32	30	20	13	22	42	143	204	179	94	100	36
12	31	30	20	14	23	40	152	202	162	94	99	36
13	34	29	21	14	24	38	149	200	155	94	100	33
14	32	32	20	14	24	41	131	199	152	95	97	35
15	33	32	19	13	25	41	113	199	158	96	98	35
16	31	35	17	14	25	39	131	205	136	99	98	34
17	31	33	17	14	26	36	134	209	129	97	99	34
18	31	33	17	14	27	37	112	214	134	98	102	33
19	30	32	17	14	29	35	97	212	138	96	102	35
20	30	31	16	15	29	31	91	213	161	97	9[illegible]	36
21	30	30	16	14	30	35	89	211	147	120	87	48
22	30	31	16	14	31	50	84	211	141	129	84	55
23	31	30	17	14	31	86	81	217	133	130	82	56
24	31	30	18	14	30	91	78	187	126	120	81	50
25	33	31	19	14	28	60	72	188	138	112	87	42
26	36	29	20	14	28	53	69	174	133	108	96	41
27	35	27	19	14	29	57	99	161	133	106	62	41
28	34	26	18	15	29	48	117	149	132	120	44	40
29	33	28	17	16	---	43	114	135	132	126	41	41
30	33	29	17	17	---	49	102	129	130	121	47	41
31	32	---	17	17	---	42	---	124	---	123	52	---
TOTAL	1049	921	626	443	689	1308	3440	5659	4315	3315	2796	1209
MEAN	33.8	30.7	20.2	14.3	24.6	42.2	115	183	144	107	90.2	40.3
MAX	55	35	29	17	31	91	228	217	194	132	124	56
MIN	27	26	16	12	18	28	38	95	119	61	41	33
AC-FT	2080	1830	1240	879	1370	2590	6820	11220	8560	6580	5550	2400

CAL YR 1976 TOTAL 63579 MEAN 174 MAX 892 MIN 16 AC-FT 126100
WTR YR 1977 TOTAL 25770 MEAN 70.6 MAX 228 MIN 12 AC-FT 51110

13177800 SOUTH FORK OWYHEE RIVER NEAR WHITEROCK, NV

LOCATION.--Lat 41°48'00", long 116°29'00", in NE¼ sec.16, T.45 N., R.49 E., Elko County, Hydrologic Unit 17050105, on left bank 500 ft (150 m) downstream from Rye Grass Creek, 1.8 mi (2.9 km) upstream from Chimney Creek, and 17 mi (27 km) northwest of Whiterock.

DRAINAGE AREA.--1,080 mi² (2,800 km²), approximately.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,900 ft (1,490 m), from topographic map.

REMARKS.--Records poor. Many diversions for irrigation of hay meadows above station. Flow partly regulated by four small reservoirs, total capacity, about 16,100 acre-ft (19.8 hm³). Monthly measurements of specific conductance and water temperature are listed in section titled "Supplemental Water-Quality Data for Gaging Stations."

AVERAGE DISCHARGE.--22 years, 163 ft³/s (4.616 m³/s), 118,100 acre-ft/yr (146 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,830 ft³/s (108 m³/s) June 5, 1963, gage height, 7.55 ft (2.301 m); no flow Oct. 1-12, 1955, part of Sept. 17, 28, 1960, Aug. 27, 31, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 168 ft³/s (4.76 m³/s) June 11, gage height 3,16 ft (0.963 m), no peak above base of 600 ft³/s (17.0 m³/s); minimum daily 5.2 ft³/s (0.147 m³/s) Sept. 8.

DISCHARGE, N CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	52	43	25	37	62	57	15	22	13	24	8.5
2	37	52	41	26	36	62	50	13	20	12	23	8.5
3	61	55	39	24	35	63	48	12	20	12	24	6.2
4	64	64	37	22	36	66	62	12	14	12	26	6.7
5	60	39	36	21	38	63	86	12	10	12	26	6.2
6	56	38	34	20	42	62	92	12	8.5	12	26	5.7
7	52	39	34	20	44	62	90	10	8.5	11	27	5.7
8	50	39	35	20	47	62	110	9.5	12	13	26	5.2
9	48	39	34	24	48	64	90	12	21	15	24	5.7
10	47	39	32	26	49	69	86	12	31	13	29	6.4
11	46	39	30	27	50	73	71	9.5	121	12	31	6.2
12	45	39	29	28	50	70	73	10	121	12	26	5.7
13	48	41	31	28	52	67	69	10	89	12	19	5.4
14	47	46	29	28	53	71	58	11	51	21	17	7.0
15	47	47	27	27	54	73	52	12	63	38	15	8.0
16	46	50	26	28	58	70	55	12	38	38	15	7.7
17	45	47	25	29	59	65	60	13	36	39	16	9.0
18	45	47	25	31	62	66	60	15	62	34	12	9.0
19	44	46	24	31	63	62	45	19	96	31	10	9.5
20	43	45	23	30	64	57	40	21	72	20	12	9.5
21	43	44	23	30	66	62	31	22	64	16	12	10
22	44	46	24	31	69	80	27	23	59	19	12	12
23	45	46	25	31	69	90	24	27	43	18	10	13
24	47	44	27	29	66	92	22	29	29	16	9.5	21
25	48	43	28	28	61	82	20	36	21	18	6.4	15
26	51	41	29	29	62	68	19	50	19	21	6.4	14
27	56	39	28	30	62	69	17	74	20	18	6.2	15
28	52	40	27	31	62	55	17	77	16	18	8.0	14
29	55	41	26	33	---	50	18	48	16	19	9.0	16
30	55	42	25	35	---	50	19	36	14	21	10	17
31	55	---	25	37	---	54	---	23	---	26	9.0	---
TOTAL	1513	1329	921	859	1494	2061	1568	697.0	1217.0	592	526.5	288.8
MEAN	48.8	44.3	29.7	27.7	53.4	66.5	52.3	22.5	40.6	19.1	17.0	9.63
MAX	64	64	43	37	69	92	110	77	121	39	31	21
MIN	31	38	23	20	35	50	17	9.5	8.5	11	6.2	5.2
AC-FT	3000	2640	1830	1700	2960	4090	3110	1380	2410	1170	1040	573

CAL YR 1976 TOTAL 53108.0 MEAN 145 MAX 868 MIN 14 AC-FT 105300
WTR YR 1977 TOTAL 13066.3 MEAN 35.8 MAX 121 MIN 5.2 AC-FT 25920

COLORADO RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DEPTH (FT)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	FIELD PH (UNITS)	WATER TEMPER-ATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	ALKA-LINITY, TOTAL (MG/L AS CACO3)
09420600 LAKE MEAD AT ICEBERG CANYON, AZ-NV (RIVER MILE 295.0; LAT 36°11', LONG 114°04'; SECCHI DISK TRANSPARENCY 23 FT)*						
DEC.						
07...	0	970	8.5	15.0	8.8	126
07...	10	975	8.5	15.0	8.8	126
07...	25	940	8.5	15.0	9.4	132
07...	50	840	8.3	11.0	10.9	137
07...	60	850	8.4	10.5	10.9	138
09420650 LAKE MEAD AT SANDY POINT, AZ (RIVER MILE 295.0; LAT 36°07', LONG 114°07'; SECCHI DISK TRANSPARENCY 27 FT)*						
DEC.						
06...	0	995	8.0	15.0	8.6	122
06...	10	980	8.4	15.5	8.7	122
06...	25	980	8.5	16.0	8.7	128
06...	50	980	8.4	16.0	8.8	128
06...	75	980	8.4	16.0	8.8	128
06...	100	960	8.3	16.0	8.8	128
06...	150	940	8.3	15.5	9.4	128
06...	200	920	8.3	15.0	10.0	134
09420700 LAKE MEAD AT VIRGIN CANYON, AZ-NV (RIVER MILE 305.3; LAT 36°16', LONG 114°24'; SECCHI DISK TRANSPARENCY 39 FT)*						
DEC.						
06...	0	950	8.3	17.0	8.6	130
06...	10	970	8.6	17.0	8.5	130
06...	25	980	8.6	16.0	8.5	130
06...	50	985	8.6	16.0	8.4	130
06...	75	1000	8.6	15.0	8.2	130
06...	100	950	8.6	16.0	8.2	130
06...	150	900	8.5	15.5	8.8	130
06...	200	910	8.5	15.0	7.9	132
06...	250	925	8.4	14.0	7.7	138
06...	295	925	8.4	13.0	8.8	138
09420750 LAKE MEAD NEAR OVERTON BEACH, NV (RIVER MILE 27.5; LAT 36°27', LONG 114°21'; SECCHI DISK TRANSPARENCY 8 FT)*						
DEC.						
08...	0	1040	8.2	14.0	8.5	130
08...	5	1060	8.3	13.0	9.2	132
08...	15	1240	8.3	11.5	10.3	135
09420800 LAKE MEAD AT OVERTON ISLANDS, NV (RIVER MILE 9.5; LAT 36°01', LONG 114°12'; SECCHI DISK TRANSPARENCY 30 FT)*						
DEC.						
08...	0	980	8.3	16.5	8.3	131
08...	10	1000	8.3	16.0	8.4	128
08...	25	1000	8.3	15.5	8.4	132
08...	75	1010	8.3	15.0	8.4	132
08...	100	1020	8.2	15.0	8.4	128
08...	125	1030	8.2	15.0	7.8	128
08...	175	1040	8.0	15.0	5.9	138
08...	225	1020	7.9	14.5	5.4	138
08...	280	1020	7.9	14.0	6.0	138
08...	290	1020	7.8	14.0	5.8	138
09420850 LAKE MEAD AT BOULDER CANYON, AZ-NV (RIVER MILE 334.6; LAT 36°08', LONG 114°37'; SECCHI DISK TRANSPARENCY 36 FT)*						
DEC.						
09...	0	1060	7.6	14.0	7.5	128
09...	10	1040	7.6	15.5	7.6	128
09...	25	1040	7.6	15.5	7.7	128
09...	75	1040	7.6	16.0	7.8	125
09...	125	1050	7.6	16.0	7.8	125
09...	175	1020	7.3	15.5	6.1	134
09...	225	1040	7.3	14.5	6.1	134
09...	275	1040	7.2	14.0	6.1	134
09...	325	1050	7.3	13.5	5.6	134
09...	375	1050	7.2	13.0	5.6	134
09...	410	1060	7.2	13.0	5.3	134

* FIELD DETERMINATIONS BY U.S. BUREAU OF RECLAMATION.

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09420900 LAKE MEAD NEAR LAS VEGAS BEACH, NV (LAT 36°06'30", LONG 114°49'10")*

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
FEB												
23...	0925	10	1080	8.1	13.0	7.1	340	85	30	100	2.4	4.9
23...	0956	234	1090	8.2	12.5	8.4	330	84	30	98	2.3	5.0
MAY												
31...	1012	10	1110	8.6	26.0	10.1	330	83	30	110	2.6	5.0
31...	1027	213	1070	8.1	16.0	7.3	340	87	29	100	2.4	4.8
AUG												
29...	0930	10	1060	8.6	28.5	8.4	310	74	31	100	2.5	5.2
29...	0955	208	1020	8.0	24.0	5.4	330	85	29	100	2.4	4.9

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
FEB												
23...	157	0	290	90	7.9	685	.30	.00	.02	.24	.56	.02
23...	158	0	300	91	8.1	694	--	--	--	--	--	--
MAY												
31...	160	0	300	89	6.1	702	.00	.01	.11	.39	.51	.02
31...	170	0	290	85	8.6	688	--	--	--	--	--	--
AUG												
29...	120	0	310	92	7.9	679	.00	.00	.02	.33	.35	.00
29...	160	0	290	88	9.9	686	--	--	--	--	--	--

DATE	TRANSPARENCY, SECCHI DISK (FEET)
FEB. 23	30
MAY 31	17

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09420950 LAKE MEAD AT SADDLE ISLAND, NV (LAT 36°03'45", LONG 114°47'40")*

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SAMPLING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
FEB									
23...	1055	10	1080	8.3	15.0	--	9.2	340	85
23...	1112	260	1060	8.1	12.5	--	8.0	320	81
MAY									
31...	1248	10	1190	8.6	27.5	1	9.8	330	83
31...	1308	250	1070	8.2	12.5	--	8.0	330	84
AUG									
29...	1200	10	1060	8.8	28.0	--	8.7	320	75
29...	1220	240	1020	8.0	13.0	--	6.1	320	80

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
FEB									
23...	32	100	2.3	4.9	157	0	320	91	7.9
23...	29	94	2.3	4.6	160	0	280	86	7.9
MAY									
31...	29	110	2.6	4.8	170	0	290	85	6.7
31...	29	100	2.4	4.7	170	0	290	82	8.4
AUG									
29...	31	100	2.5	5.2	120	0	310	92	7.9
29...	28	94	2.3	4.6	160	0	280	84	9.5

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)
FEB									
23...	--	718	.28	.00	.01	.29	.58	.02	--
23...	--	661	--	--	--	--	--	--	--
MAY									
31...	708	692	.07	.01	.04	.67	.79	.01	.01
31...	--	682	--	--	--	--	--	--	--
AUG									
29...	--	680	.00	.00	.02	.31	.33	.00	--
29...	--	659	--	--	--	--	--	--	--

DATE	TRANSPARENCY, SECCHI DISK (FEET)
FEB. 23	30
MAY 31	27
AUG. 29	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09423050 COLORADO RIVER LAGOON NORTH OF RIVIERA, AZ (LAT 35°07'23", LONG 114°36'42")

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV								
04...	--	1090	18.5	330	83	30	110	2.6
JAN								
27...	1200	1130	12.5	330	83	29	100	2.4
APR								
20...	--	1100	18.0	330	81	30	100	2.4
JUL								
19...	1000	1050	23.5	310	78	29	110	2.7

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV							
04...	5.4	168	320	95	9.7	736	.08
JAN							
27...	4.8	160	290	94	8.1	688	.15
APR							
20...	4.8	160	290	85	6.9	677	.19
JUL							
19...	4.6	160	280	90	7.6	679	.17

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

COLORADO RIVER MAIN STEM

09423060 COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, AZ (LAT 35°07'15", LONG 114°37'55")

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	WATER TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
NOV 04...	--	1110	17.5	340	87	29	100	2.4
JAN 27...	1130	1040	11.0	320	80	29	100	2.4
APR 20...	--	1050	16.5	330	81	30	100	2.4
JUL 19...	0930	1050	18.0	310	75	29	110	2.7

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV 04...	5.0	153	310	89	7.8	705	.39
JAN 27...	4.6	159	280	88	7.8	669	.24
APR 20...	4.7	160	290	83	7.1	675	.18
JUL 19...	4.6	160	280	90	8.3	677	.25

CARSON RIVER BASIN

10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CA (LAT 38°41'20", LONG 119°45'44")*

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	FIELD PH (UNITS)	WATER TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)
APR 13...	0900	E199	102	7.5	5.0	3	9.8	31
SEP 21...	0915	E31	151	8.1	9.5	0	9.6	50

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
APR 13...	9.2	1.9	8.3	.7	49	0	2.5	91
SEP 21...	14	3.6	12	.7	76	0	4.2	117

E: ESTIMATED.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
09418500 - MEADOW VALLEY WASH NR CALIENTE, NV (LAT 37 33 20 LONG 114 33 50)									
MAY , 1977					SEP , 1977				
24...	0900	3.4	915	13.0	26...	1400	3.2	757	18.0
09419000 - MUDDY R NR GLENDALE, NV (LAT 36 38 35 LONG 114 32 20)									
APR , 1977									
01...	1100	38	1620	17.5					
10244720 - FRANKLIN R NR ARTHUR, NV (LAT 40 49 25 LONG 115 08 10)									
APR , 1977					JUL , 1977				
13...	0915	11	95	2.5	25...	1030	2.5	159	15.5
MAY					AUG				
24...	1345	21	76	7.5	11...	1030	1.1	212	15.0
JUN					SEP				
24...	--	10	77	14.5	14...	1355	1.0	246	15.0
10244745 - OVERLAND C NR RUBY VALLEY, NV (LAT 40 27 30 LONG 115 23 30)									
MAY , 1977					AUG , 1977				
24...	0915	17	65	4.0	11...	1310	1.9	91	15.5
JUL					SEP				
25...	1240	9.0	81	15.5	14...	1125	1.3	89	12.0
10246846 - L CURRANT C NR CURRANT, NV (LAT 38 50 50 LONG 115 22 00)									
APR , 1977					JUL , 1977				
20...	1115	.46	379	10.0	20...	1000	.76	428	12.0
MAY					AUG				
17...	1440	1.2	374	5.5	23...	1200	3.2	360	13.0
JUN					SEP				
22...	1100	4.5	385	11.0	20...	1225	.66	371	10.0
10249280 - KINGSTON C BL COUGAR CANYON NR AUSTIN, NV (LAT 39 12 45 LONG 117 06 45)									
MAR , 1977					JUL , 1977				
22...	0925	3.9	400	5.0	19...	--	5.6	406	12.0
APR					AUG				
19...	1315	4.5	381	9.0	22...	1255	5.7	406	12.5
MAY					SEP				
16...	1350	4.6	399	6.0	19...	1315	4.4	414	10.0
JUN									
21...	1300	6.6	425	9.5					
10291500 - BUCKEYE C NR BRIDGEPORT, CA (LAT 38 14 20 LONG 119 19 30)									
APR , 1977					AUG , 1977				
28...	1345	40	45	12.5	02...	1300	12	89	13.0
JUN					23...	1530	8.7	112	18.0
30...	1615	37	52	16.5					
10293500 - E WALKER R AB STROSNIDER D NR MASON, NV (LAT 38 48 45 LONG 119 02 50)									
APR , 1977					JUN , 1977				
21...	1350	57	311	17.5	20...	1500	100	328	23.0
MAY					AUG				
17...	1205	46	332	10.0	18...	1300	19	378	27.0
10295500 - L WALKER R NR BRIDGEPORT, CA (LAT 38 21 30 LONG 119 26 30)									
JUN , 1977					AUG , 1977				
29...	0950	28	211	14.0	24...	1310	3.4	667	15.0
JUL									
27...	1450	5.1	443	22.5					

10296500 - W WALKER R NR COLEVILLE, CA (LAT 38 30 55 LONG 119 27 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					AUG , 1977				
26...	1220	206	64	8.0	24...	1100	18	216	16.0
JUN					SEP				
29...	1300	153	94	18.0	16...	1130	19	367	9.5
JUL									
27...	1120	27	178	17.0					

10297500 - W WALKER R AT HOYE BRIDGE NR WELLINGTON, NV (LAT 38 43 40 LONG 119 25 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					AUG , 1977				
20...	1300	100	258	13.0	19...	1000	22	316	22.5
JUN					SEP				
21...	1120	204	243	20.5	20...	0930	24	294	13.0

10300000 - W WALKER R NR HUDSON, NV (LAT 38 48 35 LONG 119 13 35)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
20...	1055	53	468	12.5	20...	1300	44	461	20.0
MAY					AUG				
17...	1300	70	461	10.5	18...	1500	24	450	27.5
JUN					SEP				
21...	1500	191	322	24.5	20...	1245	38	380	18.0

10300600 - WALKER R NR MASON, NV (LAT 38 55 11 LONG 119 11 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
21...	1140	40	606	18.5	19...	0930	60	446	15.0
MAY					AUG				
17...	1030	76	564	9.0	18...	1030	43	505	22.5
JUN									
20...	1145	273	347	20.5					

10301710 - WALKER R BLW WEBER RES NR SCHURZ, NV (LAT 39 02 35 LONG 118 51 28)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					AUG , 1977				
06...	1330	35	699	--	01...	1225	67	641	24.5
JUN					11...	1405	43	596	23.5
14...	1225	--	694	--	SEP				
28...	1005	21	692	19.0	08...	1220	7.2	649	22.5
JUL					21...	1355	16	619	16.5
15...	1025	88	651	22.5					

10308200 - E F CARSON R BL MARKLEEVILLE C NR MARKLEEVILLECA (LAT 38 42 50 LONG 119 45 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					AUG , 1977				
27...	1050	221	86	7.5	30...	1315	21	179	18.5
JUN					SEP				
27...	1400	140	97	20.5	29...	0945	23	176	9.0
JUL									
28...	1215	72	111	16.0					

10309100 - E F CARSON R AT MINDEN, NV (LAT 38 56 48 LONG 119 46 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					AUG , 1977				
09...	0920	4.6	237	7.0	09...	0810	.40	258	16.0
JUL					SEP				
06...	0800	1.2	239	10.0	15...	0850	.10	247	12.0

10310405 - CARSON R AT GENOA, NV (LAT 38 59 52 LONG 119 49 21)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JUL , 1977					SEP , 1977				
08...	0825	5.6	344	10.0	15...	0950	2.2	349	12.5
AUG									
09...	0930	3.1	354	18.0					

10311100 - KINGS CAN C NR CARSON CITY NEV (LAT 39 09 14 LONG 119 48 24)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					AUG , 1977				
09...	1135	.59	123	5.0	10...	1015	.45	83	17.0
JUN					SEP				
13...	1035	.33	55	9.0	13...	1030	.38	78	10.0
JUL									
12...	1100	.39	84	13.0					

10311200 - ASH CAN C NR CARSON CITY (LAT 39 10 35 LONG 119 48 16)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					JUL , 1977				
09...	1015	2.0	85	4.0	12...	1030	1.2	89	11.0
JUN					AUG				
13...	1000	1.8	80	9.0	10...	0930	1.1	89	28.0

10312150 - CARSON R BL LAHONTAN RE NR FALLON, NV (LAT 39 27 50 LONG 119 02 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAR , 1977					JUL , 1977				
02...	1020	2.5	484	6.5	05...	1040	825	332	19.0
MAY					AUG				
04...	0955	656	306	12.0	03...	0950	822	378	22.0
JUN					31...	0955	715	436	20.0
02...	1105	1030	318	14.0					

10312210 - STILLWATER DIVERSION CANAL NR FALLON NV (LAT 39 28 25 LONG 118 35 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUN , 1977				
07...	1025	7.3	2610	17.0	02...	1040	12	3500	19.5
MAY					SEP				
03...	0945	10	1950	14.0	02...	1055	16	966	19.5

10312220 - STILLWATER SLOUGH CUTOFF DRAIN NR STILLWATER NV (LAT 39 33 05 LONG 118 31 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUN , 1977				
07...	1130	10	2600	21.0	02...	1230	19	1550	23.0
MAY					SEP				
03...	1330	21	1360	16.0	02...	1230	16	1490	22.0

10312260 - INDIAN LAKES CANAL NR FALLON NV (LAT 39 34 30 LONG 118 41 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUN , 1977				
06...	1005	5.5	1430	15.0	03...	1245	.17	749	26.0
MAY					AUG				
04...	1445	4.3	722	20.0	31...	1220	.90	625	19.5

10312270 - PAIUTE DIV DRAIN, WILDLIFE ENTR NR STILLWATER NV (LAT 39 36 31 LONG 118 33 17)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					AUG , 1977				
03...	1530	7.1	1980	17.0	31...	1440	3.4	966	22.5
JUN									
02...	1430	9.6	2210	25.5					

10315500 - MARYS R AB HOT SPRINGS C NR DEETH, NV (LAT 41 15 10 LONG 115 15 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
11...	1155	78	175	9.0	26...	1145	4.9	392	23.0
28...	1115	81	155	13.0	AUG				
MAY					22...	1440	2.4	408	25.0
25...	1220	56	297	11.0					
JUN									
28...	1225	21	382	20.0					

10316500 - LAMOILLE C NR LAMOILLE, NV (LAT 40 41 30 LONG 115 28 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
14...	1615	20	178	6.0	26...	1615	12	189	18.0
MAY					AUG				
24...	1515	59	153	6.5	25...	1125	7.6	191	13.5
JUN									
27...	1515	60	128	14.0					

10317400 - N F HUMBOLDT R NR N FORK, NV (LAT 41 34 30 LONG 115 54 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
22...	1235	14	106	8.0	13...	1100	1.5	166	14.5
JUN					AUG				
01...	1345	18	97	15.0	29...	1010	1.2	218	14.5

10317500 - N F HUMBOLDT R AT DEVILS GATE NR HALLECK, NV (LAT 41 10 50 LONG 115 29 35)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
11...	1410	51	276	10.5	26...	0945	4.0	335	22.0
28...	0935	23	347	13.0	AUG				
MAY					29...	1015	4.2	349	21.5
25...	1405	22	369	11.5					
JUN									
28...	0920	13	397	19.0					

10318500 - HUMBOLDT R NR ELKO, NV (LAT 40 56 00 LONG 115 38 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
28...	1305	83	512	16.0	26...	1355	2.8	539	27.0
MAY					AUG				
20...	1115	87	585	10.0	29...	1155	1.1	474	22.0
JUL									
06...	0940	43	553	18.5					

10320000 - S F HUMBOLDT R AB DIXIE C NR ELKO, NV (LAT 40 41 05 LONG 115 48 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					JUL , 1977				
27...	1600	141	185	13.0	28...	0855	7.2	433	17.5
MAY					AUG				
13...	0940	62	338	10.0	25...	1550	12	454	19.0
JUL									
01...	1000	2.6	310	20.0					

10321000 - HUMBOLDT R NR CARLIN, NV (LAT 40 43 40 LONG 116 00 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					JUL , 1977				
20...	1500	126	483	16.0	29...	1440	14	517	24.5
JUN					AUG				
29...	1340	149	445	23.5	11...	1315	14	464	15.5

10322500 - HUMBOLDT R AT PALISADE, NV (LAT 40 36 25 LONG 116 12 05)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
MAY , 1977					AUG , 1977				
27...	1215	258	469	14.5	29...	1550	29	548	24.5
JUN					SEP				
29...	1030	162	467	18.5	29...	1425	21	562	15.0
JUL									
28...	1325	31	570	25.0					

10323500 - HUMBOLDT R NR ARGENTA, NV (LAT 40 40 45 LONG 116 38 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977					AUG , 1977				
04...	1330	132	582	12.0	12...	1130	1.0	571	22.0
MAY					SEP				
16...	1235	99	527	11.0	15...	1320	.57	565	18.5
JUN									
24...	1230	217	441	25.0					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
10324500 - ROCK C NR BATTLE MOUNTAIN, NV (LAT 40 49 30 LONG 116 34 45)									
APR , 1977					JUN , 1977				
04...	1145	5.6	439	11.0	24...	1040	4.4	406	22.0
MAY									
16...	1355	1.3	382	--					
10325000 - HUMBOLDT R AT BATTLE MOUNTAIN, NV (LAT 40 40 00 LONG 116 55 50)									
APR , 1977					JUL , 1977				
07...	1330	156	607	5.0	29...	1235	14	808	23.5
MAY					SEP				
16...	1115	98	631	10.0	09...	1200	1.1	1210	19.0
JUN									
24...	1420	217	449	26.0					
10327500 - HUMBOLDT R AT COMUS, NV (LAT 41 00 00 LONG 117 19 00)									
APR , 1977					JUL , 1977				
28...	1355	128	588	20.0	18...	1120	40	740	24.0
MAY					AUG				
25...	0940	94	718	12.0	24...	1410	.40	2190	18.0
JUN									
23...	1800	226	506	26.5					
10328450 - N F L HUMBOLDT R NR PARADISE VALLEY, NV (LAT 41 29 30 LONG 117 07 30)									
APR , 1977					AUG , 1977				
05...	1420	6.6	210	15.0	23...	1110	.34	345	20.0
JUL									
18...	1445	.17	306	27.5					
10329000 - L HUMBOLDT R NR PARADISE VALLEY, NV (LAT 41 24 55 LONG 117 22 22)									
APR , 1977					AUG , 1977				
07...	0940	9.9	405	14.0	23...	1330	6.6	400	24.0
27...	1425	11	403	17.5					
JUL									
19...	1230	7.6	401	24.0					
10329500 - MARTIN C NR PARADISE VALLEY, NV (LAT 41 32 00 LONG 117 25 40)									
APR , 1977					JUL , 1977				
27...	1300	25	140	15.0	19...	1015	5.6	249	23.0
MAY					AUG				
25...	1240	38	126	13.0	23...	1440	4.9	271	27.0
JUN									
23...	1245	26	148	15.0					
10336715 - MARLETTE C NR CARSON CITY, NV (LAT 39 10 20 LONG 119 54 25)									
JUN , 1977									
14...	1130	.22	45	11.0					
10348000 - TRUCKEE R AT RENO, NV (LAT 39 31 55 LONG 119 47 05)									
APR , 1977					MAY , 1977				
11...	1010	216	122	9.5	13...	0920	242	129	9.5
10348460 - FRANKTOWN C NR CARSON CITY, NV (LAT 39 12 12 LONG 119 52 17)									
APR , 1977					AUG , 1977				
20...	1245	4.4	54	8.0	09...	1315	.62	69	14.0
JUN					SEP				
14...	1250	2.0	55	15.5	15...	1345	.61	67	15.5
10348900 - GALENA C NR STEAMBOAT, NV (LAT 39 21 45 LONG 119 49 30)									
APR , 1977					AUG , 1977				
21...	1330	7.9	71	9.5	24...	1030	3.0	77	12.0
MAY					SEP				
23...	1300	8.7	70	6.0	23...	1330	3.2	70	9.0
JUN									
24...	0935	6.8	68	10.0					

10349300 - STEAMBOAT C AT STEAMBOAT, NV (LAT 39 22 40 LONG 119 44 33)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
21...	0930	1.6	448	12.0
MAY				
23...	1000	3.8	338	10.0
JUN				
24...	0835	1.4	471	15.0
AUG , 1977				
24...	0830	.24	520	15.0
SEP				
23...	0730	.21	488	7.0

10350000 - TRUCKEE R AT VISTA, NV (LAT 39 31 05 LONG 119 40 58)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
11...	1400	259	256	13.0
JUN , 1977				
01...	1230	210	338	16.0

10353000 - E F QUINN R NR MC DERMITT, NV (LAT 41 59 00 LONG 117 35 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
26...	1055	8.4	176	11.0
JUN				
03...	1350	7.5	170	19.0
AUG , 1977				
23...	1135	1.7	230	20.0

10353500 - QUINN R NR MC DERMITT, NV (LAT 41 47 00 LONG 117 48 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
26...	0930	1.4	763	14.0
JUN				
02...	1030	1.0	727	14.5
AUG , 1977				
23...	1055	.38	717	20.5

10353600 - KINGS R NR OROVADA, NV (LAT 41 54 25 LONG 118 18 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JUN , 1977				
03...	1045	5.7	109	14.0
AUG , 1977				
23...	1520	.86	185	26.0

10353700 - LEONARD C NR DENIO, NV (LAT 41 31 40 LONG 118 42 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
06...	1110	3.9	195	13.0
27...	1015	3.4	179	7.5
JUN				
01...	1540	5.9	142	22.0
AUG , 1977				
23...	1740	1.3	231	21.5

13161500 - BRUNEAU R AT ROWLAND, NV (LAT 41 56 00 LONG 115 40 25)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
13...	1040	142	130	6.0
MAY				
11...	1210	86	120	7.5
JUN				
07...	1300	142	104	16.0
JUL , 1977				
19...	1120	12	212	18.5
AUG				
29...	1335	9.6	211	19.5

13174500 - OWYHEE R NR GOLD CREEK, NV (LAT 41 41 20 LONG 115 50 38)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
27...	1100	51	206	6.5
MAY				
26...	1430	51	200	9.5
JUN				
20...	1310	125	204	14.5
JUL , 1977				
27...	1030	100	213	15.0
AUG				
30...	1130	45	226	16.5

13176000 - OWYHEE R AB CHINA DIV DAM NR OWYHEE, NV (LAT 41 55 20 LONG 116 04 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
27...	1230	117	189	10.0
MAY				
26...	1100	176	200	9.5
JUN				
30...	1110	131	214	15.5
JUL , 1977				
27...	1225	108	215	19.5
AUG				
30...	1345	51	250	16.5

13177800 - S F OWYHEE R NR WHITEROCK, NV (LAT 41 48 00 LONG 116 29 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR , 1977				
12...	1155	70	390	8.0
JUL				
08...	1200	8.7	453	22.0
AUG , 1977				
10...	1100	30	337	21.0
SEP				
08...	1210	4.9	399	17.0

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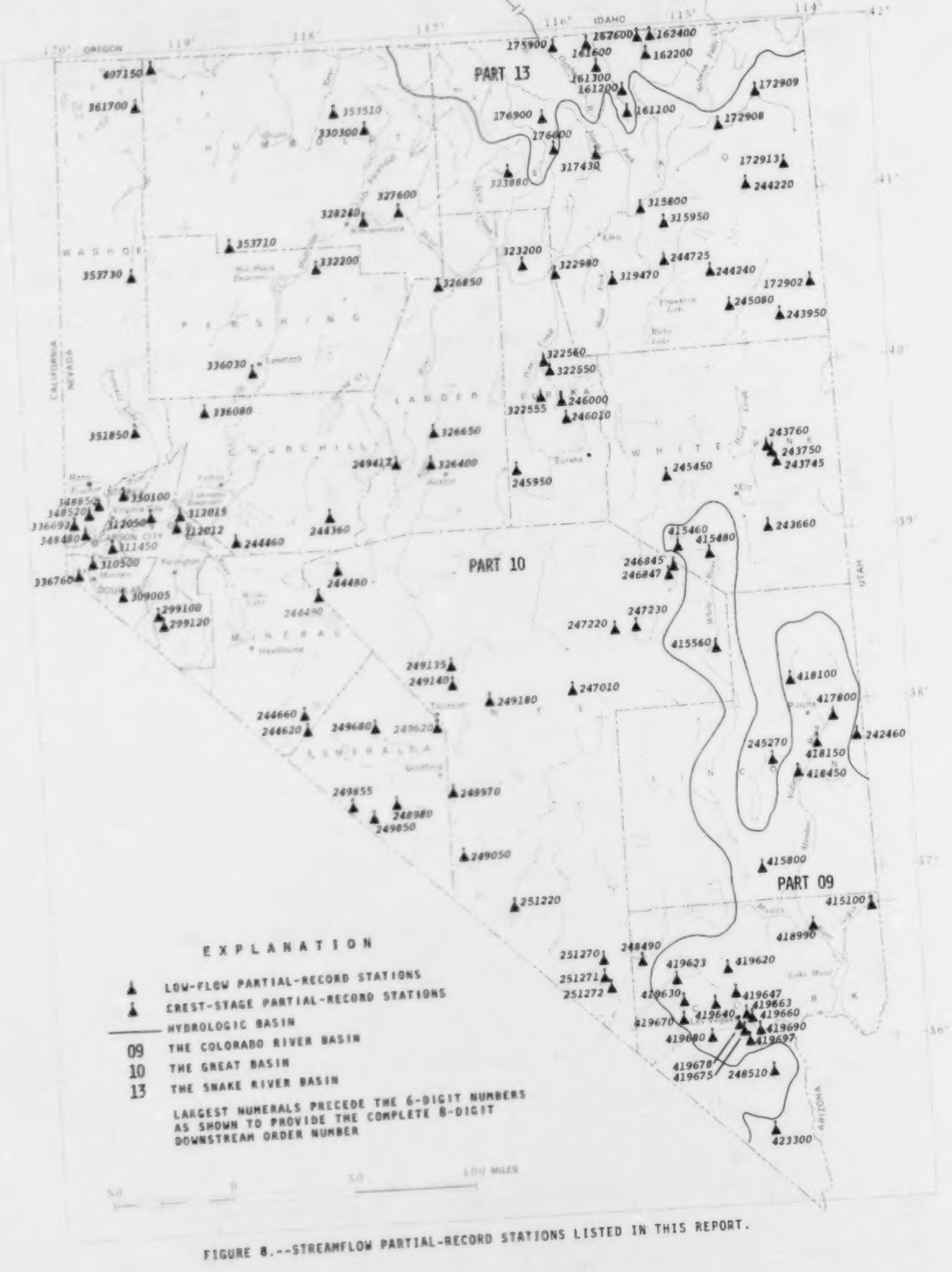
IDAHO
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36°
PART 13
PART 10
PART 09
HUMBOLDT
WASHOE
PERSHING
LANDER
EUREKA
CHURCHILL
WHITE PINE
MINERAL
NYE
ESMERALDA
LINCOLN
CLARK
DOUGLAS
CARSON CITY
Lovelock
Eureka
Ely
Austin
Hawthorne
Reno
Elko
Lake Mead
407150
361700
353510
330300
327600
328240
353710
353730
332200
326850
336030
336080
351850
326650
249417
326400
348850
348520
330100
336693
312050
312015
348480
312012
311450
244460
244360
310500
336760
309005
299100
299120
244480
244490
175900
167600
162400
161600
162200
161300
161200
161100
176900
176600
317430
333880
172909
172908
172913
244220
315800
315950
323200
322980
319470
244725
244240
172902
245080
243950
322560
322550
322555
246000
246010
245950
243760
243750
243745
245450
243660
415460
415480
246845
246847
247220
247230
415560
249135
249140
249180
247010
418100
417800
242460
244660
244620
249680
249620
245270
418150
418450
249855
248980
249850
248970
249050
415800
251220
415100
418990
251270
248490
419623
419620
251271
251272
419630
419647
419663
419640
419660
419670
419690
419680
419697
419678
419675
248510
423300
EXPLANATION
LOW-FLOW PARTIAL-RECORD STATIONS
CREST-STAGE PARTIAL-RECORD STATIONS
HYDROLOGIC BASIN
09 THE COLORADO RIVER BASIN
10 THE GREAT BASIN
13 THE SNAKE RIVER BASIN
LARGEST NUMERALS PRECEDE THE 6-DIGIT NUMBERS AS SHOWN TO PROVIDE THE COMPLETE 8-DIGIT DOWNSTREAM ORDER NUMBER
50
0
50
100 MILES

FIGURE 8.--STREAMFLOW PARTIAL-RECORD STATIONS LISTED IN THIS REPORT.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limfted streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analysis, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give a better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the State at low-flow partial-record stations are given in the following table. Generally, this category is used mostly for low-flow analysis when streamflow is primarily from ground-water storage so that the low-flow potentiality of the stream may be obtained by comparison with a nearby stream where continuous records are available. In this State, measurements are included at various stages so that a general picture of the annual streamflow characteristics may be obtained by similar comparison. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1977

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Virgin River basin				
09415460	White River near Red Mountain, near Preston, Nev.	Lat 38°56'35", long 115°20'25", in NW¼SE¼ sec.33, T.13 N., R.59 E., White Pine County, at campsite 8.0 mi (12.9 km) northwest of State Highway 6 and 15 mi (24 km) northwest of Preston.	18.6	1965-77	10-14-76 2-22-77 5-18-77 9-20-77	2.06 1.28 2.67 1.67
09417800	Meadow Valley Wash at Echo Point, near Ursine, Nev.	Lat 37°54'30", long 114°15'40", in SW¼SW¼ sec.28, T.1 N., R.69 E., Lincoln County, at Echo Point, above Echo Reservoir, and 6.0 mi (9.7 km) southwest of Ursine.	354	1970-77	10- 6-76 11-23-76 1-19-77 3-29-77 5-24-77 6-22-77 7-26-77 8-23-77 9-27-77	0.25 1.64 6.88 2.15 6.07 .61 .36 .66 .32
		Spring Valley				
10243745	Odgers Creek near McGill, Nev.	Lat 39°24'08", long 114°31'48", in NE¼ sec.27, T.18 N., R.66 E., White Pine County, at mouth of canyon, and 14 mi (23 km) east of McGill.	3.9	1973-77	10-13-76 2-23-77 4-21-77 8-24-77	0.95 1.31 1.03 1.49
10243750	Bassett Creek near McGill, Nev.	Lat 39°26'20", long 114°32'30", in NW¼SW¼ sec.10, T.18 N., R.66 E., White Pine County, 2.4 mi (3.9 km) upstream from State secondary 739 and 13 mi (21 km) northeast of McGill.	6.5	1968-77	10-13-76 2-23-77 4-21-77 8-24-77	2.61 2.14 2.86 2.46
10243760	Piermont Creek near McGill, Nev.	Lat 39°29'05", long 114°33'00", in NE¼ sec.28, T.19 N., R.66 E., White Pine County, at mouth of canyon, just above diversion, and 14 mi (23 km) northeast of McGill.	7.5	1972-77	10-13-76 2-23-77 4-21-77 8-24-77	1.14 1.06 1.95 1.04
		Ruby Valley				
10244725	Lutts Creek near Ruby Valley, Nev.	Lat 40°36'10", long 115°17'20", in NW¼NW¼ sec.2, T.31 N., R.59 E., Elko County, 0.8 mi (1.3 km) west of McCrea Ranch and 13.5 mi (21.7 km) northeast of Ruby Valley Post Office.	7.56	1965-77	4-13-77 5-24-77 6-24-77 8-11-77 9-14-77	11.1 13.2 9.10 2.79 1.70
		Humboldt River basin				
10322550	Henderson Creek near Palisade, Nev.	Lat 40°01'50", long 116°14'40", in SE¼ sec.20, T.25 N., R.51 E., Eureka County, 1.5 mi (2.4 km) upstream from Pete Hanson Creek, 11 mi (18 km) from mouth, and 42 mi (68 km) south of Palisade.	150	1972-77	1-13-77 4-15-77	0 0

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Humboldt River basin--Continued				
10322555	Pete Hanson Creek near Eureka, Nev.	Lat 39°53'10", long 116°22'00", in sec.8, T.23 N., R.50 E., Eureka County, above diversions, 13 mi (21 km) from mouth, 52 mi (84 km) south of Palisade, and 33 mi (53 km) northwest of Eureka.	5.0	1972-77	10- 6-76 1-13-77 4-15-77 6- 9-77	0.46 0 .35 .82
10322560	Pete Hanson Creek near Palisade, Nev.	Lat 40°02'35", long 116°15'45", in SW¼ sec.18, T.25 N., R.51 E., Eureka County, 0.5 mi (0.8 km) above mouth, and 40 mi (64 km) south of Palisade.	67	1972-77	10- 6-76 1-13-77 4-15-77	0 0 0
		Pyramid and Winnemucca Lakes basin				
10336760	Edgewood Creek at Stateline, Nev.	Lat 38°58'00", long 119°56'10", in NE¼NE¼ sec.27, T.13 N., R.18 E., Douglas County, on upstream side of culvert on U.S. Highway 50 and 0.5 mi (0.8 km) northeast of Stateline.	5.5	1967-77	1- 6-77 3- 7-77 5- 9-77 8- 9-77 9-15-77	2.34 2.01 4.83 1.59 1.56
10348480	McCrays Canyon near Carson City, Nev.	Lat 39°12'13", long 119°52'48" in SW¼SW¼ sec.32, T.16 N., R.19 E., Washoe County, 0.5 mi (0.8 km) upstream from mouth, and 6.5 mi (10.5 km) west-northwest of Carson City.	.64	1974-77	10-19-76 12- 2-76 4-20-77 4-24-77 6-14-77 7-13-77 8- 9-77 8-12-77 9-15-77	0.08 .13 .30 .25 .41 .09 .08 .09 .04
10348520	Ophir Creek near Steamboat, Nev.	Lat 39°17'25", long 119°49'50", in SE¼SE¼ sec.34, T.17 N., R.19 E., Washoe County, at toe of hill, and 8.0 mi (12.9 km) southwest of Steamboat.	4.2	1972-77	3-22-77 6-23-77	0.68 1.10
10348850	Browns Creek near Steamboat, Nev.	Lat 39°20'28", long 119°49'05", in SE¼NW¼ sec.14, T.17 N., R.19 E., Washoe County, 1.5 mi (2.4 km) upstream from mouth and 5.0 mi (8.0 km) southwest of Steamboat.	3.6	1972-77	3-22-77 6-23-77	5.61 .08

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water year for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Virgin River basin					
09415100	Pulsipher Wash near Mesquite, Nev.	Lat 36°48'04", long 114°06'37", in NW¼SW¼ sec.18, T.13 S., R.71 E., Clark County, at culvert on U.S. Highway 91 and 2.5 miles west of Mesquite.	4.58	1963-77	10- -76	-	900
09415480	White River tributary near Preston, Nev.	Lat 38°53'30", long 115°11'40", in N½ sec.23, T.12 N., R.60 E., White Pine County, at culvert on U.S. Highway 6, 2 miles upstream from White River, and 7.5 miles west of Preston.	b26	1962-77	10- 2-76	1.04	a9
09415560	White River tributary near Sunnyside, Nev.	Lat 38°19'30", long 115°02'50", Nye County, about 0.4 mile downstream from ford on State Highway 38, 8 miles south of Sunnyside, and 37 miles south of Lund.	b20	1967-77	9- -77	2.14	a80
09415800	Muddy River tributary near Alamo, Nev.	Lat 37°02'00", long 114°58'50", Lincoln County, at abandoned culvert on former U.S. Highway 93 and 25 miles southeast of Alamo.	b2	1964-77	1977	-	0
09418100	Patterson Wash tributary near Pioche, Nev.	Lat 38°09'00", long 114°35'10", Lincoln County, at culvert on U.S. Highway 93 and 15 miles northwest of Pioche.	b5	1964-77	1977	-	0
09418150	Caselton Wash near Panaca, Nev.	Lat 37°45'46", long 114°25'44", in NW¼SE¼NW¼ Sec.24, T.2 S., R.68 E., Lincoln County, 0.35 mile upstream from bridge on U.S. Highway 93, 3 miles southwest of Panaca. (Revised.)	70.2	1963-77	10- 2-76	6.21	1,100
09418450	Meadow Valley Wash tributary near Caliente, Nev.	Lat 37°36'00", long 114°39'30", in sec.13, T.4 S., R.65 E., Lincoln County, at abandoned culvert, about 100 ft upstream from U.S. Highway 93, 1.2 miles east of Oak Springs Summit, and 8 miles west of Caliente.	b<0.5	1964-77	1977	c2.79	a0.3
09418990	Weiser Wash near Glendale, Nev.	Lat 36°40'05", long 114°32'10", in SW¼SE¼ sec.31, T.14 S., R.67 E., Clark County, at culvert on Interstate Highway 15 and 2 miles east of Glendale.	b43	1966-77	8- -77	6.08	47
		Las Vegas Valley					
09419620	Mormon Wells Wash near Las Vegas, Nev.	Lat 36°26'45", long 115°15'10", in NE¼SW¼ sec.27, T.17 S., R.60 E., Clark County, above Mormon Wells road crossing, 6 miles east of Corn Creek Springs National Fish and Wildlife Service Headquarters, and 20 miles north of Las Vegas.	b115	1962-77	10- -76	-	a30
09419623	Deer Creek near Charleston Park, Nev.	Lat 36°18'45", long 115°37'10", in NE¼SE¼ sec.7, T.19 S., R.57 E., Clark County, 200 ft upstream from culvert on Deer Creek Springs Road and 4.0 miles northeast of Charleston Park.	1.27	1967-77	8- -77	c0.1	a2
09419630	Telephone Canyon near Charleston Park, Nev.	Lat 36°16'20", long 115°32'30", in SE¼NW¼ sec.25, T.19 S., R.57 E., Clark County, at culvert on State Highway 39 and 5.8 miles east of Charleston Park.	7.20	1962-77	6- -77	-	a17

a Estimated.
b Approximately.
c From high-water marks.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Las Vegas Valley--Continued					
09419640	Kyle Canyon near Charleston Park, Nev.	Lat 36°16'40", long 115°28'10", in SE¼SW¼ sec.22, T.19 S., R.58 E., Clark County, 650 ft below culvert on State Highway 39 and 10 miles east of Charleston Park.	35.9	1961-77	6- -77	-	a3
09419647	Las Vegas Wash tributary near North Las Vegas, Nev.	Lat 36°18'10", long 115°08'20", in NW¼NE¼ sec.15, T.19 S., R.61 E., Clark County, 0.5 miles southwest of end of road in Nellis Air Force Base Ground Gunnery Range and 7.5 miles north of North Las Vegas.	b62	1963-77	10- -76	-	a2
09419660	Las Vegas Wash tributary near Nellis Air Force Base, Nev.	Lat 36°13'55", long 115°04'05", in NW¼NE¼ sec.8, T.20 S., R.62 E., Clark County, at culvert on Alternate U.S. Highway 91 and 93 and 1.5 miles southwest of Nellis Air Force Base.	18.1	1961-77	10- 1-76	2.32	a140
09419663	Las Vegas Wash tributary south of Nellis Air Force Base, Nev.	Lat 36°11'40", long 115°01'30", near section line common to secs. 22 and 23, T.20 S., R.62 E., Clark County, 0.1 mile south of Lake Mead Boulevard and 3.7 miles south of main gate of Nellis Air Force Base.	b1.2	1963-77	10- -76	c0.32	a13
09419670	Red Rock Wash near Blue Diamond, Nev.	Lat 36°09'30", long 115°29'45", in NE¼NW¼ sec.4, T.21 S., R.58 E., Clark County, 0.2 mile southeast of Willow Spring and 9.3 miles northwest of Blue Diamond.	8.09	1962-77	10- -76	-	a4
09419675	Flamingo Wash at Las Vegas, Nev.	Lat 36°06'56", long 115°11'03", in SW¼ sec.17, T.21 S., R.61 E., Clark County, 80 ft upstream from Union Pacific Railroad bridge and 4 miles southwest of Las Vegas Post Office.	b86	1966-77	8-17-77	3.21	640
09419678	Flamingo Wash near mouth at Las Vegas, Nev.	Lat 36°08'28", long 115°05'47", in NW¼NW¼ sec.7, T.21 S., R.62 E., Clark County, 120 ft upstream from culvert on U.S. Highway 93, 95, and 466 and 3.2 miles southeast of Las Vegas Post Office.	b117	1969-77	8-17-77	10.14	1,470
09419680	Cottonwood Valley near Blue Diamond, Nev.	Lat 36°00'35", long 115°25'50", in NE¼NW¼ sec.25, T.22 S., R.58 E., Clark County, at culverts on Cottonwood Valley Road and 3 miles southwest of Blue Diamond.	18.3	1961-77	10- -76	3.52	a14
09419690	Duck Creek at Whitney, Nev.	Lat 36°05'09", long 115°02'00", in NW¼NE¼ sec.34, T.21 S., R.62 E., Clark County, at culvert on U.S. Highway 93, 95, and 466 and 0.7 mile southeast of Whitney.	239	1961-77	10- 2-76	3.36	a600
09419697	Las Vegas Wash tributary near Henderson, Nev.	Lat 36°01'53", long 115°01'49", in NE¼SE¼ sec.15. T.22 S., R.62 E., Clark County, at culvert on State Highway 41 and 2.5 miles west of downtown Henderson.	1.17	1967-77	10- 2-76	3.28	a30
		Piute Valley					
09423300	Piute Wash tributary at Searchlight, Nev.	Lat 35°28'00", long 114°56'20", in SE¼NE¼ sec.33, T.28 S., R.63 E., Clark County, at culvert on State Highway 68 and 1 mile west of Searchlight.	b3.4	1967-77	10- 1-76	4.98	48

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a Estimated.
b Approximately.
c From high-water marks.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Great Salt Lake Desert					
10172902	Dead Cedar Wash near Wendover, Utah	Lat 40°25'00", long 114°11'20", in N½ sec.4, T.29 N., R.69 E., Elko County, Nev., at culvert on Alternate U.S. Highway 50 and 23.5 miles southwest of Wendover, Utah.	b5	1961-77	1977	-	0
10172908	Thousand Springs Creek at Wilkins, Nev.	Lat 41°25'15", long 114°45'00', in SE¼ sec.20, T.41 N., R.64 E., Elko County, at culvert on U.S. Highway 93, south of Wilkins, and 24 miles northeast of Wells.	b79	1968-77	6- -77	3.06	a25
10172909	Burnt Creek near Shores, Nev.	Lat 41°33'35", long 114°29'35", Elko County, at culvert, 16 miles east of Shores, and 40 miles northeast of Wells.	10.5	1968-77	1977	3.23	5
10172913	Loray Wash tributary near Cobre, Nev.	Lat 41°07'37", long 114°20'40", in SE¼SW¼ sec.36, T.38 N., R.67 E., Elko County, at culvert on State Highway 30 and 3 miles east of Cobre.	b24	1961-77	1977	-	0
		Escalante Valley					
10242460	Escalante Valley tributary near Panaca, Nev.	Lat 37°44'10", long 114°08'20", Lincoln County at culvert on State Highway 25, 3.5 miles east of Modena Summit, 5 miles west of Nevada-Utah boundary, and 14 miles east of Panaca.	b7.9	1964-77	1977	4.45	a12
		Spring Valley					
10243660	Connors Pass Creek near Shoshone, Nev.	Lat 39°02'35", long 114°38'00", in SW¼SW¼ sec.25, T.14 N., R.65 E., White Pine County, at culvert on U.S. Highway 6, 50, and 93 and 18.5 miles northwest of Shoshone.	0.45	1962-77	1977	-	0
		Antelope Valley (Northern Part)					
10243950	Millick Canyon tributary near Currie, Nev.	Lat 40°13'30", long 114°26'10", near center of sec.8, T.27 N., R.67 E., Elko County, at culvert on Alternate U.S. Highway 50 and 17 miles east of Currie.	b1.4	1965, 1968-77	1977	-	0
		Clover and Independence Valleys					
10244220	Maverick Canyon near Oasis, Nev.	Lat 41°04'32", long 114°35'14", in SE¼NE¼ sec.23, T.37 N., R.65 E., Elko County, at culvert on U.S. Highway 40 and 6 miles northwest of Oasis.	3.02	1968-77	1977	-	0
10244240	Clover Valley tributary near Arthur, Nev.	Lat 40°33'35", long 114°57'40", in SE¼SW¼ sec.15, T.31 N., R.62 E., Elko County, at culvert on U.S. Highway 93 and 21 miles southeast of Arthur.	b3	1968-77	8- -77	2.68	a0.1
		Dixie Valley Basin					
10244360	Dixie Valley tributary near Eastgate, Nev.	Lat 39°17'30", long 117°59'00", in SE¼ sec.36, T.17 N., R.35 E., Churchill County, at culvert on U.S. Highway 50 and 6 miles west of Eastgate.	b11	1961-77	8- -77	3.70	a3
		Rawhide Flats					
10244460	Rawhide Flats tributary near Schurz, Nev.	Lat 39°08'40", long 118°44'55", in S½SW¼ sec.21, T.15 N., R.29 E., Churchill County, at culvert on U.S. Highway 95 and 14 miles north of Schurz.	0.96	1967-77	1977	c13.28	52

a Estimated.
b Approximately.
c From high-water marks.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Gabbs Valley					
10244480	Gabbs Valley tributary near Gabbs, Nev.	Lat 38°59'45", long 117°59'45", in sec.13, T.13 N., R.35 E., Nye County, at culvert on State Highway 23 and 9 miles northwest of Gabbs.	b7	1965, 1968-77	1977	-	0
10244490	Finger Rock Wash near Gabbs, Nev.	Lat 38°41'20", long 118°01'00", in NW¼NW¼ sec.31, T.10 N., R.36 E., Mineral County, 3.9 miles upstream from State Highway 23, and about 12 miles south of Gabbs.	207	1974-77	10- 2-76	5.76	38
		Teels Marsh Valley					
10244620	Teels Marsh tributary at Basalt, Nev.	Lat 38°00'07", long 118°16'48", Mineral County, at culvert on U.S. Highway 6 and 0.75 mile southwest of Basalt.	1.07	1967-77	1977	-	0
		Rhodes Salt Marsh Valley					
10244660	Rhodes Salt Marsh tributary near Candelaria, Nev.	Lat 38°09'17", long 118°12'50", Mineral County, at culvert on State Highway 10 and 7 miles west of Candelaria.	b0.4	1961-77	1977	-	0
		Steptoe Valley basin					
10245080	Nelson Creek tributary near Currie, Nev.	Lat 40°18'00", long 114°46'20", in SE¼ sec.17, T.28 N., R.64 E., Elko County, at culvert on former U.S. Highway 93 and 2.5 miles northwest of Currie.	b0.7	1961-77	8- -77	5.43	52
		Dry Lake Valley					
10245270	Dry Lake Valley tributary near Caliente, Nev.	Lat 37°37'30", long 114°46'30", in NW¼ sec.11, T.4 S., R.64 E., Lincoln County, at culvert on U.S. Highway 93 and 14.5 miles west of Caliente.	b11	1967-77	1977	-	0
		Jakes Valley					
10245450	Illipah Creek tributary near Hamilton, Nev.	Lat 39°21'35", long 115°21'05", in NW¼NE¼ sec.8, T.17 N., R.59 E., White Pine County, at culvert on U.S. Highway 50, 100 ft upstream from Illipah Creek, and 10.5 miles northeast of Hamilton.	5.47	1962-77	1977	-	0
		Monitor and Diamond Valleys basin					
10245950	Bean Flat tributary near Austin, Nev.	Lat 39°29'32", long 116°32'00", Eureka County, at culvert on U.S. Highway 50 and 29 miles east of Austin.	b1.1	1961-77	1977	-	0
10246000	Garden Pass Creek tributary near Eureka, Nev.	Lat 39°49'00", long 116°09'52", Eureka County, culvert on State Highway 51 and 24 miles northwest of Eureka.	2.12	1962-77	1977	-	a0.2
10246010	Garden Pass Creek near Eureka, Nev.	Lat 39°46'45", long 116°06'23", in NW¼NW¼ sec.22, T.22 N., R.52 E., Eureka County, at culvert on State Highway 51 and 20 miles north of Eureka.	19.2	1965-77	1977	5.79	a20

a Estimated.
b Approximately.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Hot Creek and Railroad (Northern Part) Valleys							
10246845	Currant Creek tributary near Currant, Nev.	Lat 38°49'10", long 115°19'35", near line common to NW¼NE¼ and NE¼NW¼ sec.15, T.11 N., R.59 E., Nye County, at culvert on U.S. Highway 6 and 9.5 miles northeast of Currant.	3.13	1962-77	10- 2-76	2.72	a2
10246847	Currant Creek, below Little Currant Creek, near Currant, Nev.	Lat 38°49'12", long 115°20'43", in NE¼NW¼ sec.16, T.11 N., R.59 E., Nye County, at bridge on U.S. Highway 6, 3.5 miles west of Currant Summit, and 9 miles northeast of Currant.	30.0	1964-76	10- 2-76	3.21	70
10247010	Hot Creek tributary near Warm Springs, Nev.	Lat 38°12', long 116°13', in sec.15, T.4 N., R.51 E., Nye County, at culvert on State Highway 25, 9 miles east of Warm Springs, and 57 miles east of Tonopah.	d0.77	1964-77	8- -77	-	a1
10247220	Black Rock Summit tributary near Currant, Nev.	Lat 38°30'25", long 115°53'20", Nye County, at culvert on U.S. Highway 6 and 28 miles southwest of Currant.	6.35	1967-77	1977	-	0
10247230	Railroad Valley tributary near Currant, Nev.	Lat 38°32'34", long 115°47'52", in NW¼NW¼ sec.21, T.8 N., R.55 E., Nye County, at culvert on U.S. Highway 6 and 22.5 miles southwest of Currant.	0.37	1962-77	1977	-	0
Indian Springs Valley							
10248490	Indian Springs Valley tributary near Indian Springs, Nev.	Lat 36°34'00", long 115°48'40", in NW¼NW¼ sec.16, or SW¼SW¼ sec.9, T.16 S., R.55 E., Clark County, at culvert on U.S. Highway 95 and 8 miles west of Indian Springs.	b29	1964-77	10- 2-76	3.26	100
Stonewall and Sarcobatus Flats basin							
10248970	Stonewall Flat tributary near Goldfield, Nev.	Lat 37°35'40", long 117°12'35", in SE¼NE¼ sec.13, T.4 S., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 8 miles south of Goldfield.	0.53	1964-77	8- -77	-	a0.3
10248980	Lida Pass tributary near Lida, Nev.	Lat 37°26'05", long 117°33'25", in SE¼NE¼ sec.8, T.6 S., R.40 E., Esmeralda County, at culvert on State Highway 3 and 4 miles southwest of Lida.	1.59	1968-77	6- -77	-	a0.6
10249050	Sarcobatus Flat tribu- Nev.	Lat 37°13'18", long 117°07'35", Nye County, at and 24 miles northwest of Springdale.	37.1	1961-77	8- -77	-	a1
Stone Cabin and Ralston Valleys							
10249135	San Antonio Wash tributary near Tonopah, Nev.	Lat 38°19'37", long 117°07'25", in SE¼SW¼ sec.35, T.6 N., R.43 E., Nye County, at culvert on State Highway 8A and 19 miles north of Tonopah.	3.42	1965-77	8- -77	-	a1
10249140	Ralston Valley tributary near Tonopah Nev.	Lat 38°17'23", long 117°05'59", in SW¼NE¼ sec.13, T.5 N., R.43 E., Nye County, at culvert on State Highway 8A and 17 miles northeast of Tonopah.	0.20	1961-77	8- -77	c3.20	26
10249180	Saulsbury Wash near Tonopah, Nev.	Lat 38°07'30", long 116°48'30", in S½SW¼ sec.10, T.3 N., R.46 E., Nye County, at culvert on U.S. Highway 6 and 23 miles east of Tonopah.	b56	1962-77	1977	-	0
Smith Creek Valley							
10249417	Smith Creek Valley tributary near Austin, Nev.	Lat 39°32'21", long 117°28'26", in NE¼SE¼ sec.4, T.19 N., R.40 E., Lander County, at culvert on U.S. Highway 50 and 22 miles west of Austin.	0.62	1968-77	1977	-	0
Ione and Big Smoky (Tonopah Flat) Valleys							
10249620	Big Smoky Valley tributary near Tonopah, Nev.	Lat 38°01'52", long 117°13'52", in SW¼NE¼ sec.14, T.2 N., R.42 E., Esmeralda County, at culvert on U.S. Highway 95 and 2.5 miles south of Tonopah.	2.39	1961-77	8- -77	-	a1
10249680	Big Smoky Valley tributary near Blair Junction, Nev.	Lat 38°01'52", long 117°42'35", Esmeralda County, at culvert on U.S. Highway 6 and 95 and 3.5 miles east of Blair Junction.	11.4	1961-77	10- 2-76	3.30	170

a Estimated.
b Approximately.
c From high-water marks.
d Revised.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Fish Lake Valley and Columbus Salt Marsh							
10249850	Palmetto Wash tributary near Lida, Nev.	Lat 37°26'30", long 117°41'25", in SW¼SE¼ sec.6, T.6 S., R.39 E., Esmeralda County, at culvert on State Highway 3, 7 miles west of Lida Summit, and 11 miles west of Lida.	4.73	1967-77	6- -77	-	a0.5
10249855	Palmetto Wash tributary near Oasis, Calif.	Lat 37°27'25", long 117°46'10", in W½SW¼ sec.33, T.5 S., R.38 E., Esmeralda County, Nev., at culvert on State Highway 3 and 8 miles southeast of Oasis, Calif.	b0.24	1968-77	1977	-	0
Death Valley basin							
10251220	Amargosa River near Beatty, Nev.	Lat 36°52'06", long 116°45'34", in NW¼NE¼ sec.30, T.12 S., R.47 E., Nye County, on left bank, 170 ft downstream from airport road, and 2.8 miles south of Beatty.	b470	1963-68‡, 1969-77	6- -77	-	a1.7
10251270	Amargosa River tributary near Mercury, Nev.	Lat 36°33'40", long 116°06'00", in sec.14, T.16 S., R.52 E., Nye County, at culvert on U.S. Highway 95 and 9 miles southwest of Mercury.	110	1963-77	10- 2-76	3.09	24
10251271	Amargosa River tributary No. 1 near Johnnie, Nev.	Lat 36°27'36", long 116°06'28", in NE¼SE¼ sec.22, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 3.5 miles northwest of Johnnie.	2.21	1967-77	10- 2-76	6.00	74
10251272	Amargosa River tributary No. 2 near Johnnie, Nev.	Lat 36°26'09", long 116°04'28", in W½NE¼ sec.36, T.17 S., R.52 E., Nye County, at culvert on State Highway 16 and 1.2 miles north of Johnnie.	2.49	1968-77	8- -77	-	3
Walker Lake basin							
10299100	Desert Creek near Wellington, Nev.	Lat 38°38'55", long 119°19'30", in SW¼SW¼ sec.8, T.9 N., R.24 E., Lyon County, on left bank 10 ft above diversion and 8 miles southeast of Wellington.	50.4	1965-69‡, 1970-77	6- -77	1.77	30
10299120	O'Banion Canyon near Wellington, Nev.	Lat 38°38'05", long 119°15'50", Lyon County, at culvert on State Highway 22 and 10 miles southeast of Wellington.	5.05	1965-77	6- -77	-	a0.3
Carson River basin							
10309005	Bodie Flat tributary near Gardnerville, Nev.	Lat 38°50'08", long 119°37'52", in NW¼NE¼ sec.9, T.11 N., R.21 E., Douglas County, at culvert on U.S. Highway 395 and 9 miles southeast of Gardnerville.	0.46	1967-77	1977	-	0
10310500	Clear Creek near Carson City, Nev.	Lat 39°06'48", long 119°47'50", in NE¼NW¼ sec.1, T.14 N., R.19 E., Carson City, 3 miles upstream from mouth and 3.5 miles southwest of Carson City.	15.5	1948-62‡, 1963-77	1977	-	a5
10311450	Brunswick Canyon near New Empire, Nev.	Lat 39°10'20", long 119°41'10", in NW¼NE¼ sec.13, T.15 N., R.20 E., Carson City, 0.3 mile upstream from mouth and 2.5 miles east of New Empire.	12.7	1966-77	10- 2-76	-	a0.5
10312012	Adrian Valley tributary near Wabuska, Nev.	Lat 39°12'55", long 119°12'25", in NE¼SE¼ sec.31, T.16 N., R.25 E., Lyon County, at culvert on Alternate U.S. Highway 95 and 4.8 miles northwest of Wabuska.	5.75	1968-77	1977	-	0
10312015	Adrian Valley tributary near Weeks, Nev.	Lat 39°13'45", long 119°13'40", in NW¼NW¼ sec.30, T.16 N., R.25 E., Lyon County, at abandoned culvert on former Alternate U.S. Highway 95 and 4.6 miles southeast of Weeks.	0.12	1968-77	1977	-	a0.2
10312050	Lahontan Reservoir tributary near Silver Springs, Nev.	Lat 39°22'40", long 119°19'00", in SE¼SW¼ sec.32, T.18 N., R.24 E., Lyon County, at culvert on private road, 0.3 mile south of U.S. Highway 50, and 5.5 miles southwest of Silver Springs.	4.39	1962-77	1977	-	0

‡ Operated as a continuous-record station.
a Estimated.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Humboldt River basin					
10315800	Humboldt River tributary near Halleck, Nev.	Lat 40°58'10", long 115°26'50", in NW¼NW¼ sec.33, T.36 N., R.58 E., Elko County, at culvert on Interstate Highway 80 and 1.5 miles north of Halleck.	b3	1966-77	1977	-	0
10315950	Secret Creek tributary near Arthur, Nev.	Lat 40°52'00", long 115°15'40", in S½SE¼ sec.36, T.35 N., R.59 E., Elko County, at culvert on and 12 miles southeast of Halleck.	b3	1967-77	6- -77	c18.62	2
10317430	Jim Creek near Tuscarora, Nev.	Lat 41°17'50", long 115°47'30", in SW¼ sec.4, T.39 N., R.55 E., Elko County, at culvert on State Highway 43 and 23 miles east of Tuscarora.	b25	1962, 1966-77	5- -77	-	a5
10319470	Willow Creek tributary near Jiggs, Nev.	Lat 40°30'47", long 115°39'42", in SW¼NW¼ sec.3, T.30 N., R.56 E., Elko County, at culvert on State Highway 46 and 6 miles north of Jiggs.	0.82	1962-77	1977	-	0
10322980	Cole Creek near Palisade, Nev.	Lat 40°35'05", long 116°08'55", in SE¼NE¼ sec.7. T.31 N., R.52 E., Eureka County, at culvert on State Highway 20 and 3.2 miles southeast of Palisade.	11.4	1962-77	1977	-	a0.1
10323200	Bob Creek near Beowawe, Nev.	Lat 40°39'35", long 116°24'30", in NE¼SE¼ sec.11, T.32 N., R.49 E., Eureka County, at culvert on Interstate Highway 80 and 6 miles northeast of Beowawe.	13.9	1962-77	1977	-	0
10323880	Willow Creek above Willow Creek Reservoir, near Tuscarora, Nev.	Lat 41°13'00", long 116°28'00", in SW¼NE¼ sec.36, T.39 N., R.48 E., Elko County, 4 miles upstream from dam and 14.5 miles southwest of Tuscarora.	b81	1968-77	8- -77	2.83	210
10326400	Reese River tributary near Austin, Nev.	Lat 39°28'29", long 117°19'10", in NE¼NW¼ sec.36, T.19 N., R.41 E., Lander County, at culvert on U.S. Highway 50 and 14 miles west of Austin.	8.27	1968-77	8- -77	5.35	a19
10326650	Silver Creek near Austin, Nev.	Lat 39°43'10", long 117°10'04", in NW¼ sec.5, T.21 N., R.43 E., Lander County, at culvert on State Highway 8A and 16.5 miles north of Austin.	b25	1961-77	1977	-	0
10326850	Reese River tributary near Battle Mountain, Nev.	Lat 40°32'30", long 117°03'00", in SW¼ sec.20, T.31 N., R.44 E., Lander County, at culvert on State Highway 8A and 9 miles southwest of Battle Mountain.	b0.2	1962-77	6- -77	-	a5
10327600	Humboldt River tributary near Golconda, Nev.	Lat 41°00'40", long 117°21'20", in E½ sec.9, T.36 N., R.41 E., Humboldt County, at culvert on State Highway 18 and 8 miles northeast of Golconda.	b3.4	1962-77	1977	-	a0.5
10328240	Humboldt River tributary near Bliss, Nev.	Lat 40°59'55", long 117°39'30", in SE¼NE¼ sec.14, T.36 N., R.38 E., Humboldt County, at culvert on Interstate Highway 80 and 5 miles northeast of Winnemucca.	b1.9	1968-77	6- -77	-	a0.1
10330300	Mullinex Creek near Paradise Valley, Nev.	Lat 41°30'40", long 117°32'25", in NE¼NE¼ sec.23, T.42 N., R.39 E., Humboldt County, at culvert on State Highway 8B and 1.2 miles north of Paradise Valley.	27.3	1962-77	1977	-	a0.2
10332200	Raspberry Creek near Mill City, Nev.	Lat 40°47'14", long 117°59'54", in SW¼SW¼ sec.25, T.34 N., R.35 E., Pershing County, at culvert on access road, upstream from Cosgrove Interchange on Interstate Highway 80, and 8.5 miles northeast of Mill City.	9.38	1961-77	6- -77	-	a0.2
10336030	Toulon Drain tributary near Lovelock, Nev.	Lat 40°06'30", long 118°33'25", in NW¼SE¼ sec.24, T.26 N., R.30 E., Pershing County, at culvert on Interstate Highway 80 and 7.5 miles southwest of Lovelock.	0.80	1962-77	10- -76	-	a0.3
10336080	Humboldt Slough tributary near Bradys Hot Springs, Nev.	Lat 39°51'05", long 118°55'40", in NE¼NE¼ sec.22, T.23 N., R.27 E., Churchill County, at culvert on U.S. Highway 40 and 95 and 6.5 miles northeast of Bradys Hot Springs.	11.0	1962-77	1977	3.37	a10

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a Estimated.
b Approximately.
From high-water marks.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Pyramid and Winnemucca Lakes basin					
10336673*	Wood Creek near Crystal Bay, Nev.	Lat 39°15'40", long 119°57'25", in SE¼SE¼ sec.9, T.16 N., R.18 E., Washoe County, at culvert on State Highway 27 and 3.5 miles northeast of Crystal Bay.	1.69	1967-77	9- -77	4.29	13
10350100	Long Valley Creek near Happy Valley, Nev.	Lat 39°28'55", long 119°37'10", in NE¼SW¼ sec.27, T.19 N., R.21 E., Storey County, 2 miles southeast of Happy Valley and 8 miles southeast of Sparks.	82.6	1967-77	1977	-	a1.5
10351850	Pyramid Lake tributary near Nixon, Nev.	Lat 39°51'30", long 119°28'32", in SW¼SE¼ sec.14, T.23 N., R.22 E., Washoe County, at bridge on Southern Pacific Railroad and 6.5 miles west of Nixon.	1.94	1968-77	8- -77	c4.5	340
		Black Rock Desert basin					
10353510	Eagle Creek near Orovada, Nev.	Lat 41°39'05", long 117°46'40", in SW¼NE¼ sec.35, T.44 N., R.37 E., Humboldt County, at culvert on U.S. Highway 95 and 5.6 miles north of Orovada.	3.44	1962-77	1977	-	0
10353710	Black Rock Desert tributary near Sulphur, Nev.	Lat 40°54'00", long 118°37'40", Humboldt County, at culvert on State Highway 49 and 7.5 miles east of Sulphur.	b33	1967-77	6- -77	c7.5	3,900
10353730	Dry Creek near Gerlach, Nev.	Lat 40°43'43", long 119°27'07", in SE¼NE¼ sec.23, T.33 N., R.23 E., Washoe County, 1 mile north of State Highway 81 and 7.5 miles west of Gerlach.	b3.5	1968-77	6- -77	-	a1
		Guano Valley Basin					
10361700	Badger Creek tributary near Vya, Nev.	Lat 41°43'20", long 119°22'20", in NE¼ sec.22, T.44 N., R.23 E., Washoe County, at culvert on State Highway 8A, 27 miles northeast of Vya, and 43 miles southwest of Denio.	7.7	1963, 1964-72‡, 1973-77	5- -77	2.08	10
		Tumtum Lake basin					
10407150	Big Spring Reservoir tributary near Denio, Nev.	Lat 41°56'53", long 119°17'51", Humboldt County, at culvert on State Highway 8A, 3.4 miles southwest of Nevada-Oregon State line, and 35 miles west of Denio.	1.02	1963-77	1977	-	0
		Bruneau River basin					
13161100	Bruneau River near Charleston, Nev.	Lat 41°30'50", long 115°27'05", in SE¼SW¼ sec.20, T.42 N., R.58 E., Elko County, 600 ft downstream from road, 11.5 miles south of Charleston, and 25 miles south of Jarbidge.	b44	1962-77	4- -77	-	a1.1
13161200	Seventy Six Creek near Charleston, Nev.	Lat 41°42'40", long 115°28'57", in NE¼ sec.13, T.44 N., R.57 E., Elko County, at culvert, 3.5 miles northeast of Charleston, and 12 miles south of Jarbidge.	3.52	1963-77	1977	9.84	28
13161300	Meadow Creek near Rowland, Nev.	Lat 41°54'00", long 115°40'40", in SW¼ sec.5, T.46 N., R.56 E., Elko County, at culvert and 2.5 miles south of Rowland.	57.8	1963-77	1977	c10.3	a30
13161600	McDonald Creek near Rowland, Nev.	Lat 41°55'10", long 115°46'20", in SW¼NE¼ sec.33, T.47 N., R.55 E., Elko County, at culvert and 5 miles west of Rowland.	10.8	1963-77	6- -77	ce5.73	22
13162200	Jarbidge River at Jarbidge, Nev.	Lat 41°51'45", long 115°25'40", in NW¼ sec.21, T.46 N., R.58 E., Elko County, at bridge and 1.0 mile south of Jarbidge.	22.6	1964-77	6-10-77	15.70	600
13162400	Buck Creek near Jarbidge, Nev.	Lat 41°58'45", long 115°25'55", in NW¼ sec.9, T.47 N., R.58 E., Elko County, at culvert, at Diamond A Ranch, and 7.2 miles north of Jarbidge.	20.2	1963-77	4- -77	16.70	50
13162600	Columbet Creek near Jarbidge, Nev.	Lat 41°58'00", long 115°29'05", in NW¼ sec.13, T.47 N., R.57 E., Elko County, at culvert and 7 miles northwest of Jarbidge.	3.37	1963-77	6- -77	7.30	9

* Also published as miscellaneous site.
‡ Operated as a continuous-record station.
a Estimated.
b Approximately.
c From high-water marks.
e At downstream gage.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS--CONTINUED

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Owyhee River basin					
13175900	Reed Creek near Owyhee, Nev.	Lat 41°53'45", long 116°03'40", in SW¼SE¼ sec.7, T.46 N., R.53 E., Elko County, at culvert on State Highway 11A and 3.8 miles southeast of Owyhee.	6.51	1963-77	4- -77	3.19	a25
13176600	Taylor Canyon tributary near Tuscarora, Nev.	Lat 41°14'10", long 116°02'10", in S½ sec.29, T.39 N., R.53 E., Elko County, at culvert on State Highway 11 and 11 miles southeast of Tuscarora.	b1.2	1967-77	1977	-	0
13176900	Jack Creek below Schoonover Creek, near Tuscarora, Nev.	Lat 41°30'30", long 116°04'20", in NW¼SE¼ sec.25, T.42 N., R.52 E., Elko County, 0.2 mile downstream from Schoonover Creek, 2 miles upstream from mouth, and 16 miles northeast of Tuscarora.	1[illegible].8	1962-69‡, 1970-77	4- -77	1.02	a100

‡ Operated as a continuous-record station.
a Estimated.
b Approximately.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977

Measurements of streamflow at miscellaneous sites during the water year are given in the following table. Generally, this category of measurements represents base flow conditions and were made when streamflow was primarily from ground-water storage to give areal coverage to low-flow and drought conditions. However, where miscellaneous measurements were made to document peak flows, verify existing stage-discharge relationships, or meet other project needs, appropriate footnotes are used.

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Unnamed basin				
Hot Spring	Colorado River	Lat 36°00'46", long 114°44'31", in NW¼NW¼SE¼ sec.29, T.22 S., R.65 E., Clark County, Hydrologic Unit 15030101, at Pupfish refugium below Hoover Dam.	--	--	5-17-77	0.38
Unnamed Spring	Colorado River	Lat 36°00'10", long 114°44'58", in NW¼SW¼NW¼ sec.32, T.22 S., R.65 E., Clark County, Hydrologic Unit 15030101, near Boulder City.	--	--	5-17-77	1.24
Unnamed Spring	Colorado River	Lat 35°59'01", long 114°44'50", in SE¼NW¼SW¼ sec.5, T.23 S., R.65 E., Clark County, Hydrologic Unit 15030101, near Boulder City.	--	--	5-17-77	0.55
Unnamed Spring	Colorado River	Lat 35°57'56", long 114°44'34", in SE¼SE¼SW¼ sec.8, T.23 S., R.65 E., Clark County, Hydrologic Unit 15030101, near Boulder City.	--	--	5-19-77	0.65
Unnamed Spring	Colorado River	Lat 36°55'17", long 113°51'35", in SW¼ sec.30, T.41 N., R.14 W., Mohave County, Hydrologic Unit 15010010, at mouth of Virgin Canyon near Littlefield, AZ.	--	--	9-20-77	15.5
Roger's Spring	Roger's Wash	Lat 36°22'39", long 114°26'36", in NE¼SE¼SE¼ sec.12, T.18 S., R.67 E., Clark County, Hydrologic Unit 15010005, near Overton.	--	--	5-18-77	0.93
Blue Point Spring	Unnamed Wash	Lat 36°23'23", long 114°25'58", in SW¼SW¼SE¼ sec.6, T.18 S., R.68 E., Clark County, Hydrologic Unit 15010005, near Overton.	--	--	5-18-77	0.55
		Snake Valley				
10243240 Baker Creek	Snake Valley	Lat 38°59', long 114°13', in sec.22, T.13 N., R.69 E., White Pine County, Hydrologic Unit 16020301, on left bank 0.5 mi (0.8 km) downstream from Pole Canyon, 1 mi (1.6 km) downstream from narrows, and 4.8 mi (7.7 km) southwest of Baker.	16.4	1948-55‡	9-21-77	3.85
10243260 Lehman Creek	Snake Valley	Lat 39°01', long 114°13', in sec.10, T.13 N., R.69 E., White Pine County, Hydrologic Unit 16020301, on left bank, 4.8 mi (7.7 km) west of Baker.	a11	1948-55‡	10-13-76 9-21-77	3.17 2.91
		Buena Vista Valley				
10244320 Buena Vista Creek	Buena Vista Valley	Lat 40°26'55", long 118°08'50", in NW¼NW¼ sec.27, T.30 N., R.34 E., Pershing County, Hydrologic Unit 16060001, just below Wilson Canyon, and 1.3 mi (2.1 km) west of Unionville.	6.22	1965-71*	8-24-77 9-14-77	0.05 .04
		Steptoe Valley basin				
Murry Spring overflow	Steptoe Creek	Lat 39°15'47", long 114°52'21", in SE¼SW¼ sec.10, T.16 N., R.63 E., White Pine County, Hydrologic Unit 16060008, at upstream side of railroad track, and 0.3 mi (0.5 km) north of Ely.	--	1966	9-21-77 10-20-77	1.00 2.26
Murry plus Georgetown Springs	Steptoe Creek	Lat 39°16'04", long 114°51'59", in SW¼NE¼ sec.10, R.63 E., White Pine County, Hydrologic Unit 16060008, 2,000 ft (610 m) downstream from railroad track, and 0.6 mi (1.0 km) north of Ely.	--	1966	9-21-77 10-20-77	1.09 2.43
Unnamed tributary	Steptoe Creek	Lat 39°19', long 114°48', sec.20 and sec. 21, T.17 N., R.64 E., White Pine County, Hydrologic Unit 16060008, between Northern Nevada Railroad milepoints 2.9 and 3.7, and about 7 mi (11 km) northeast of Ely.	2.74	--	8-19-77	b1,900
		Monitor and Diamond Valleys basin				
Shipley Hot Springs	Diamond Valley	Lat 39°56'35", long 116°04'20", in NE¼SE¼ sec.23, T.24 N., R.52 E., Eureka County, Hydrologic Unit 16060005, 2.2 mi (3.5 km) north of Baily Ranch, and 28 mi (45 km) northwest of Eureka.	--	--	9-22-77	5.64

See footnotes at end of the table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Hot Creek and Railroad (Northern Part) Valleys				
North Spring	Railroad Valley	Lat 38°33'40", long 115°45'55", in NE¼NE¼ sec.15, T.8 N., R.55 E., Nye County, Hydrologic Unit 16060012, 0.7 mi (1.1 km) northeast of Lockes.	--	1965 1967-72	9-20-77	0.36
May Coral Spring	Railroad Valley	Lat 38°33'25", long 115°45'50", in NW¼NW¼ sec.14, T.8 N., R.55 E., Nye County, Hydrologic Unit 16060012, 0.6 mi (1.0 km) northeast of Lockes.	--	1972	9-20-77	0.86
Reynolds Springs	Railroad Valley	Lat 38°33'15", long 115°46'00", in SE¼NE¼ sec.15, T.8 N., R.55 E., Nye County Hydrologic Unit 16060012, 0.4 mi (0.6 km) east of Lockes.	--	1967-72	9-20-77	0.70
Big Spring	Railroad Valley	Lat 38°33'20", long 115°46'15", in SW¼NE¼ sec.15, T.8 N., R.55 E., Nye County, Hydrologic Unit 16060012, 0.2 mi (0.3 km) northeast of Lockes.	--	1967-72	9-20-77	1.04
		Big Smoky Valley (Northern Part)				
Moore Creek	Big Smoky Valley	Lat 38°52'15", long 116°58'52", in NE¼SE¼ sec.25, T.12 N., R.44 E., Nye County, Hydrologic Unit 16060004, 0.8 mi (1.3 km) above Moore Creek Ranch and 12 mi (19 km) north of Round Mountain.	a8.5	1968	9-14-77	0.35
Barker Creek	Big Smoky Valley	Lat 38°48'21", long 117°01'34", in SE¼SW¼ sec.15, T.11 N., R.44 E., Nye County, Hydrologic Unit 16060004, 0.1 mi (0.3 km) upstream from Barker Creek Ranch, and 7 mi (11 km) north of Round Mountain.	a7.5	1968	9-14-77	0.90
Jet Creek	Big Smoky Valley	Lat 38°43'56", long 117°14'16", in SW¼ sec.13, T.10 N., R.42 E., Nye County, Hydrologic Unit 16060004, immediately upstream from pipeline diversion, about 2 mi (3 km) above canyon mouth, and 10 mi (16 km) west of Round Mountain.	a7.3	1968	9-14-77	0.48
North Twin River	Big Smoky Valley	Lat 38°53'37", long 117°15'00", in NW¼ sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, just upstream from pipeline diversion, about 6 mi (10 km) west of RO Ranch, and 16 mi (26 km) northwest of Round Mountain.	--	1968	9-13-77	2.17
Ophir Creek	Big Smoky Valley	Lat 38°56'23", long 117°14'41", in SE¼SW¼ sec.34, T.13 N., R.42 E., Nye County, Hydrologic Unit 16060004, 1.3 mi (2.1 km) upstream from confluence with Last Chance Creek, and 18.5 mi (29.8 km) northwest of Round Mountain.	a3.9	1968	9-13-77	0.27
Summit Canyon	Big Smoky Valley	Lat 38°58'09", long 117°14'21", in SE¼SE¼ sec.22, T.13 N., R.42 E., Nye County, Hydrologic Unit 16060004, 5.7 mi (9.2 km) northwest of RO Ranch and 20 mi (32 km) northwest of Round Mountain.	a2.9	1968	9-13-77	0.18
Carseley Creek	Big Smoky Valley	Lat 39°10'18", long 117°06'27", in SE¼ sec.11, T.15 N., R.43 E., Lander County, Hydrologic Unit 16060004, 3 mi (5 km) upstream from Triple T Ranch and 22 mi (35 km) south of Austin.	--	1968	9-13-77	0.54
Birch Creek	Big Smoky Valley	Lat 39°22'25", long 117°00'50", in NE¼SE¼ sec.34, T.18 N., R.44 E., Lander County, Hydrologic Unit 16060004, 2.2 mi (3.5 km) above Birch Creek Ranch, and 8.5 mi (13.7 km) southwest of Austin.	a17.5	1968	9-13-77	1.29
		Fish Lake Valley and Columbus Salt Marsh				
Cottonwood Creek	Fish Lake Valley	Lat 37°28'00", long 117°55'40", in SW¼SW¼ sec.33, T.5 S., R.37 E., Mono County, Hydrologic Unit 16060010, 1.8 mi (2.9 km) south-southwest of Oasis, CA.	50.0	1970-71	8-16-77 9-14-77	3.14 3.21
McAfee Creek	Fish Lake Valley	Lat 37°38'10", long 118°05'20", in SE¼NE¼ sec.3, T.4 S., R.35 E., Mono County, CA, Hydrologic Unit 16060010, 0.1 mi (0.2 km) downstream from unnamed tributary, and 4.5 mi (7.2 km) northwest of Dyer Post Office.	15.4	1970-71	8-16-77 9-14-77	2.20 2.47

See footnotes at end of the table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Fish Lake Valley and Columbus Salt Marsh--Continued						
Perry Aiken Creek	Fish Lake Valley	Lat 37°39'40", long 118°05'35", in NE¼SE¼ sec.27, T.3 S., R.35 E., Esmeralda County, Hydrologic Unit 16060010, 0.1 mi (0.2 km) upstream from ditch canal, and 1.4 mi (2.3 km) southwest of Dyer.	22.3	1970-71	8-16-77 9-14-77	5.10 6.13
Leidy Creek	Fish Lake Valley	Lat 37°43'35", long 118°10'10", in NE¼SW¼ sec.35, T.2 S., R.34 E., Esmeralda County, Hydrologic Unit 16060010, 0.5 mi (0.8 km) downstream from unnamed tributary, and 5.7 mi (9.2 km) northwest of Dyer.	20.6	1970-71	8-16-77 9-14-77	4.47 3.91
Indian Creek	Fish Lake Valley	Lat 37°47'00", long 118°11'55", in SE¼NE¼ sec.9, T.2 S., R.34 E., Esmeralda County, Hydrologic Unit 16060010, 1.1 mi (1.8 km) downstream from unnamed tributary, and 9.5 mi (15.3 km) northwest of Dyer.	14.4	1970-71	8-16-77 9-14-77	2.50 2.22
Walker Lake basin						
10289000 Virginia Creek	East Walker River	Lat 38°11'30", long 119°12'30", near center of W½ sec.22, T.4 N., R.25 E., Mono County, Hydrologic Unit 16050301, downstream from Clearwater Creek, 3 mi (5 km) upstream from mouth, and 4.2 mi (6.8 km) southeast of Bridgeport, CA.	63.6	1954-75‡	8-10-77 9-15-77	1.67 2.31
10290000 Summers Creek	East Walker River	Lat 38°09'15", long 119°15'30", in NW¼NE¼ sec.6, T.3 N., R.25 E., Mono County, Hydrologic Unit 16050301, on right bank, 7.5 mi (12.1 km) southwest of Bridgeport, CA.	12.6	1954-59‡	8-10-77 9-15-77	1.12 1.21
10292000 Swauger Creek	East Walker River	Lat 38°17'00", long 119°17'55", in NE¼NW¼ sec.23, T.5 N., R.24 E., Mono County, Hydrologic Unit 16050301, on right bank 0.8 mi (1.3 km) downstream from Yaney Canyon and 4 mi (6 km) northwest of Bridgeport, CA.	52.8	1911-15, 1954-75‡	8-11-77 9-15-77	1.72 1.98
10295200 West Walker River	Walker River	Lat 38°19'50", long 119°33'05", in NW¼NW¼ sec.34, T.6 N., R.22 E., Mono County, Hydrologic Unit 16050302, on left bank at Leavitt Meadows Lodge, 500 ft (150 m) upstream from Brownie Creek, 0.9 mi (1.4 km) downstream from Leavitt Creek, and 16.5 mi (26.6 km) south of Coleville, CA.	73.0	1945-64‡	8-10-77 9-15-77	8.67 4.22
Sheep Creek	Dalzell Canyon	Lat 38°30'08", long 119°15'47", T.8 N., R.24 E., Lyon County, Hydrologic Unit 16050302, above Wiley Ditch, 0.8 mi (1.3 km) downstream from county line, and 18.5 mi (29.8 km) southeast of Wellington.	1.78	1971-72	8-11-77 9-15-77	0.10 .08
Red Canyon	Artesia Lake	Lat 38°50'53", long 119°25'42", in SW¼NE¼ sec.5, T.11 N., R.23 E., Douglas County, Hydrologic Unit 16050302, 7 mi (11 km) north of Wellington.	10.7	1971-72	8-11-77 9-15-77	0.14 .05
10299100 Desert Creek	West Walker River	Lat 38°38'55", long 119°19'30", in SW¼SW¼ sec.8, T.9 N., R.24 E., Lyon County, Hydrologic Unit 16050302, on left bank, 10 ft (3 m) upstream from diversion, 0.5 mi (0.8 km) upstream from Desert Creek Ranch, and 8 mi (13 km) southeast of Wellington.	50.4	1965-69‡ 1970-77†	8-11-77 9-15-77	2.64 2.29
Unnamed tributary No. 1	West Walker River	Lat 38°48'00", long 119°16'40", in SE¼ sec.22, T.11 N., R.24 E., Lyon County, Hydrologic Unit 16050302, about 3 mi (5 km) east of Smith.	a10	--	6-30-77	b360
Unnamed tributary No. 2	West Walker River	Lat 38°48'30", long 119°13'40", in NE¼NW¼ sec.19, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, about 6 mi (10 km) east of Smith.	a0.1	--	6-30-77	b155
McConnell Canyon	Walker River	Lat 38°56'15", long 119°12'00", in NE¼NE¼ sec.5, T.12 N., R.25 E., Lyon County, Hydrologic Unit 16050303, about 1.0 mi (0.6 km) southwest of Mason.	1.66	--	6-30-77	b7,890

See footnotes at end of the table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977—Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Walker Lake basin--Continued				
Mason Valley tributary	Walker River	Lat 38°57'10", long 119°12'10", in NE¼NE¼ sec.32, T.13 N., R.25 E., Lyon County, Hydrologic Unit 16050303, about 0.5 mi (0.8 km) west of Mason.	2.56	--	6-30-77	b4,300
Walker River	Walker Lake	Lat 39°02'42", long 118°51'31", in NE¼SW¼ sec.28, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 50 ft (15 m) downstream from Weber Dam and 8.5 mi (13.7 km) northwest of Schurz.	--	--	5-06-77 6-28-77 7-15-77 8-01-77 8-11-77 9-08-77 9-21-77	35.3 21.2 88.4 67.0 43.4 7.22 16.0
Walker River	Walker Lake	Lat 39°00'51", long 118°51'37", in SE¼SW¼ sec.4, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 2 mi (3.2 km) downstream from Weber Reservoir and 6 mi (9.7 km) northwest of Schurz.	--	--	5-06-77 6-13-77 6-28-77 7-15-77 8-01-77 8-11-77 9-08-77 9-21-77	40.6 .21 18.0 84.9 56.1 41.4 13.4 15.9
Corey Creek	Walker Lake	Lat 38°29'20", long 118°44'05", in SW¼ sec.3, T.7 N., R.29 E., Mineral County, Hydrologic Unit 16050304, about 6 mi (10 km) southwest of Hawthorne.	6.82	--	8-21-77	b2,180
		Carson River basin				
10304000 Wolf Creek	East Fork Carson River	Lat 38°32', long 119°43', in sec.24, T.8 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on left bank, 0.8 mi (1.3 km downstream from Bull Canyon Creek, and 12 mi (19 km) southwest of Markleeville, CA	a9.8	1947-51‡	8-10-77 9-14-77	2.61 1.85
10304500 Silver Creek blw Pennsylvania Creek	East Fork Carson River	Lat 38°36'00", long 119°46'30", in SE¼NE¼ sec.28, T.9 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on the left bank, 0.2 mi (0.3 km) downstream from Pennsylvania Creek, 4 mi (6 km) upstream from mouth, and 6.5 mi (10.5 km) south of Markleeville, CA	19.6	1947-67‡	8-10-77 9-14-77	14.7 .84
10306000 Hot Springs Creek	Markleeville Creek	Lat 38°42', long 119°51', in SE¼NE¼ sec.23, T.10 N., R.19 E., Alpine County, Hydrologic Unit 16050201, on right bank 0.5 mi (0.8 km) upstream from Buck Creek, 4 mi (6 km) upstream from mouth, and 4 mi (6 km) west of Markleeville, CA	a14	1947-57‡	8-08-77 9-14-77	0.59 .24
10308800 Bryant Creek	East Fork Carson River	Lat 38°47'38", long 119°40'18", in NE¼SW¼ sec.30 T.11 N., R.21 E.,Douglas County, Hydrologic Unit 16050201, on right bank 500 ft (150 m) upstream from Doud Springs Creek, 1.7 mi (2.7 km) upstream from mouth, and 11 mi (18 km) southeast of Gardnerville.	31.5	1960-69‡	8-08-77 9-14-77	1.63 2.14
Fredricksburg Canyon	West Fork Carson River	Lat 38°49'44", long 119°47'56", in NE¼SW¼ sec.12, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, about 0.7 mi (1.1 km) west of Fredricksburg, CA	3.71	1972-73 1976	8-25-77 9-14-77	1.09 1.34
Luther Creek	West Fork Carson River	Lat 38°51'22", long 119°48'38", in SW¼SE¼ sec.35, T.12 N., R.19 E., Alpine County, Hydrologic Unit 16050201, about 2.3 mi (3.7 km) northwest of Fredricksburg, CA	--	1976	8-25-77 9-14-77	1.03 .89
Mott Canyon	West Fork Carson River	Lat 38°55'39", long 119°50'47", in NE¼SE¼ sec.4, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 0.8 mi (1.3 km) upstream from Foothill Road, and 5.5 mi (8.8 km) southwest of Minden.	a2.0	1969,1971, 1972,1973, 1976	8-25-77 9-14-77	0.55 .33
Genoa Canyon	Carson River	Lat 39°00'03", long 119°51'12", in SE¼SW¼ sec.9 T.13 N., R.19 E., Douglas County Hydrologic Unit 16050201, 0.8 mi (1.3 km) downstream from confluence with unnamed tributary and 0.5 mi (0.8 km) southwest of Genoa.	2.24	1969,1972, 1976	8-26-77 9-14-77	0.66 1.15
Sierra Canyon	Carson River	Lat 39°00'59", long 119°50'46", in NW¼SE¼ sec.4, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 1.0 mi (1.6 km) downstream from confluence with unnamed tributary, and 0.9 mi (1.4 km) north of Genoa.	3.15	1969,1976	8-26-77 9-14-77	0.75 .69
10310500 Clear Creek	Carson River	Lat 39°06'50", long 119°47'50", in NE¼NW¼ sec. 1, T.14 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank 3 mi (5 km) upstream from mouth and 3.5 mi (5.6 km) southwest of Carson City.	15.5	1948-62‡ 1963-77†	8-10-77 9-14-77	1.04 .98

e footnotes at end of the table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Humboldt River basin				
10313000 Starr Creek	Humboldt River	Lat 41°01', long 115°16', in NE¼ sec.12, T.36 N., R.59 E., Elko County, Hydrologic Unit 16040101, Elko County, Hydrologic Unit 16050101, 2 mi (3 km) upstream from mouth, and 3 mi (5 km) southeast of Deeth.	--	1913-24‡	8-12-77 9-08-77	3.53 2.63
10319000 South Fork Humboldt River	Humboldt River	Lat 40°34', long 115°33', in SE¼ sec.16, T.31 N., R.57 E., Elko County, Hydrologic Unit 16040103, on left bank 400 ft (120 m) downstream from Kleckner Creek, and 2.5 mi (4.0 km) east of Lee.	a54	1945-55‡	8-12-77 9-08-77	2.35 1.66
10319500 Huntington Creek	South Fork Humboldt River	Lat 40°33'45", long 115°43'00", in NW¼NW¼ sec.19, T.31 N., R.56 E., Elko County, Hydrologic Unit 16040103, on right bank 500 ft (150 m) downstream from mouth of right bank tributary, 1.6 mi (2.6 km) downstream from Willow Creek, 5.5 mi (8.8 km) upstream from mouth, and 6 mi (10 km) west of Lee.	a770	1949-72‡ 1973-75	4-13-77 5-26-77	16.9 52.0
10320500 South Fork Humboldt River	Humboldt River	Lat 40°43'25", long 115°49'45", in NE¼NW¼ sec.30, T.33 N., R.55 E., Elko County, Hydrologic Unit 16040103, on right bank 0.1 mi (0.2 km) upstream from head of canyon, 1.7 mi (2.7 km) downstream from highway bridge, 8.8 mi (14.2 km) upstream from mouth, and 10 mi (16 km) southwest of Elko.	a1,310	1896-1909‡ 1910-18 ‡ 1919,1920-22‡ 1924-32 ‡ 1937-73 ‡	6-15-77	1,990
		Pyramid and Winnemucca Lakes basin				
10336700 Incline Creek	Lake Tahoe	Lat 39°14'25", long 119°56'38", in SW¼NE¼ sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank 500 ft (150 m) upstream from culvert on Lakeshore Boulevard, 1,000 ft (300 m) upstream from mouth, just below confluence with major tributary, and 3 mi (5 km) east of Crystal Bay.	7.0	1967-69* 1970-73‡ 1974-75*	8-05-77	0.64
Unnamed tributary	Marlette Lake	Lat 39°10'28", long 119°53'42", in SW¼SW¼ sec.7, T.15 N., R.19 E., Washoe County, Hydrologic Unit 16050101, 200 ft (60 m) above Marlette Lake shoreline, and 7 mi (11 km) west of Carson City.	--	--	8-11-77	0.04
Unnamed tributary	Marlette Lake	Lat 39°10'22", long 119°53'28", in SE¼SW¼ sec.7, T.15 N., R.19 E., Washoe County, Hydrologic Unit 16050101, 1,000 ft (300 m) above Marlette Lake shoreline, and 7 mi (11 km) west of Carson City.	--	--	8-11-77	0.01
Unnamed tributary	Marlette Lake	Lat 39°09'44", long 119°53'49", in NW¼SW¼ sec.18, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050101, 100 ft (30 m) above Marlette Lake shoreline, and 7 mi (11 km) west of Carson City.	--	--	8-11-77	0.13
North Canyon Creek	Lake Tahoe	Lat 39°07'59", long 119°54'16", in NW¼NW¼SE¼ sec.25, T.15 N., R.18 E., Carson City, Hydrologic Unit 16050101, 1.7 mi (2.7 km) north of Spooner Lake, and 7 mi (11 km) west of Carson City.	--	--	8-11-77	0.33
10336730 Glenbrook Creek	Lake Tahoe	Lat 39°05'15", long 119°56'20", in SW¼NE¼SE¼ sec.10, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank 50 ft (15 m) upstream from culvert at gas station, 100 ft (30 m) upstream from mouth, at Glenbrook.	4.07	1972-75‡	8-05-77	0.04
10339700 Prosser Creek	Truckee River	Lat 39°24'00", long 120°12'00", in NE¼NE¼ sec.21, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050103, on left bank 0.8 mi (1.3 km) west of Hobart Mills, 3 mi (4 km) upstream from Alder Creek, and 5 mi (8 km) north of Truckee.	27.4	1959-63‡	8-09-77 9-16-77	4.34 4.05
10339900 Alder Creek	Prosser Creek	Lat 39°22'07", long 120°10'54", in SE¼NE¼ sec.34, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on right bank 0.6 mi (1.0 km) upstream from Prosser Creek Reservoir and 2.5 mi (4.0 km) north of Truckee.	7.47	1959-69‡ 1971-73‡	8-09-77 9-16-77	0.06 .09
10342000 Little Truckee River	Truckee River	Lat 39°30'05", long 120°16'35", in NE¼NE¼ sec.14, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, on left bank 0.5 mi (0.8 km) upstream from Independence Creek, and 7.5 mi (12.1 km) northwest of Hobart Mills.	36.5	1947-72‡	8-09-77 9-16-77	1.44 1.67

See footnotes at end of the table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Pyramid and Winnemucca Lakes basin--Continued				
10347300 Dog Creek	Truckee River	Lat 39°33'55", long 120°01'25", in SW¼SW¼ sec.30, T.20 N., R.18 E., Sierra County, Hydrologic Unit 16050102, on left bank 3.5 mi (5.6 km) upstream from mouth, and 4 mi (6 km) northwest of Verdi.	16.2	1957-61‡	8-09-77 9-16-77	0.14 .26
Franktown Creek tributary	Hobart Reservoir	Lat 39°11'34", long 119°51'35", in NW¼SW¼ sec.4, T.15 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.2 mi (0.3 km) east of Hobart Reservoir, and 5 mi (8 km) northwest of Carson City.	--	--	8-11-77	0.04
Franktown Creek tributary	Hobart Reservoir	Lat 39°11'17", long 119°51'41", in SW¼SW¼ sec.4, T.15 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.3 mi (0.5 km) southeast of Hobart Reservoir, and 5 mi (8 km) northwest of Carson City.	--	--	8-11-77	0.03
Franktown Creek tributary	Hobart Reservoir	Lat 39°11'17", long 119°52'00", in SW¼SE¼ sec.5, T.15 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.4 mi (0.6 km) south of Hobart Reservoir, and 5 mi (8 km) northwest of Carson City.	--	--	8-11-77	0.37
Franktown Creek tributary	Franktown Creek	Lat 39°12'14", long 119°53'14", in NE¼SW¼SE¼ sec.31, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.8 mi (1.3 km) southwest of Red House, and 7 mi (11 km) northwest of Carson City.	--	--	8-12-77	0.01
Franktown Creek tributary	Franktown Creek	Lat 39°12'20", long 119°53'13", in SE¼NW¼SE¼ sec.31, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 0.8 mi (1.3 km) west of Red House, and 7 mi (11 km) northwest of Carson City.	--	--	8-12-77	0.01
Franktown Creek tributary	Franktown Creek	Lat 39°12'50", long 119°53'33", in NE¼NE¼NW¼ sec.31, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 1.2 mi (1.9 km) northwest of Red House, 2,600 ft (790 m) below Marlette tunnel exit, and 7 mi (11 km) northwest of Carson City.	--	--	8-12-77	0.03
Franktown Creek tributary	Franktown Creek	Lat 39°12'59", long 119°53'32", in SE¼SE¼SW¼ sec.30, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 1.3 mi (2.1 km) northwest of Red House, 1,800 ft (550 m) below Marlette tunnel exit, and 7 mi (11 km) northwest of Carson City.	--	--	8-12-77	0.03
Franktown Creek tributary	Franktown Creek	Lat 39°13'04", long 119°53'33", in NE¼SE¼SW¼ sec.30, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, 1,200 ft (370 m) below Marlette tunnel exit, 1.3 mi (2.1 km) northwest of Red House, and 7 mi (11 km) northwest of Carson City.	--	--	8-12-77	0.02
Franktown Creek tributary	Franktown Creek	Lat 39°13'16", long 119°53'34", in NE¼NE¼SW¼ sec.30, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Marlette tunnel exit, 1.5 mi (2.4 km) northwest of Red House, and 7 mi (11 km) northwest of Carson City.	--	--	8-12-77	0.38
10349700 Whites Creek	Steamboat Creek	Lat 39°23'05", long 119°50'20", in SE¼NW¼ sec.34, T.18 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on left bank, 4 mi (6 km) above Steamboat Ditch, 4.0 mi (6.4 km) west of Steamboat, and 10 mi (16 km) south of Reno.	8.02	1962-66‡	8-09-77	2.35
		Owyhee River basin				
13176900 Jack Creek blw Schoonover Creek	Harrington Creek	Lat 41°30'30", long 116°04'20", NW¼SE¼ sec.25, T.42 N., R.52 E., Elko County, Hydrologic Unit 17050105, on left bank 0.2 mi (0.3 km) downstream from Schoonover Creek, 2 mi (3 km) upstream from mouth, and 16 mi (26 km) northeast of Tuscarora.	19.8	1962-69‡	8-10-77 9-08-77	2.43 2.48

* Operated as a low-flow partial-record site.
† Operated as a crest-stage partial-record station.
‡ Operated as a continuous-record station.
a Approximately.
b Peak flow.

STATE OF NEVADA
HYDROGRAPHIC AREAS

1-NORTHWEST REGION

1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION

17. Pilgrim Flat
18. Painters Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
    (A) Rio King Subarea
    (B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
    (A) Orovada Subarea
    (B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Basin
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek — Tenmile Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpernickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
    (A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Warm Springs V.
85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
    (A) Western Part
    (B) Eastern Part
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skedaddle Creek V.
99. Red Rock V.
100. Cold Spring V.

8-CARSON RIVER BASIN

101. Carson Desert
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

9-WALKER RIVER BASIN

106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
    (A) Schurz Subarea
    (B) Lake Subarea
    (C) Whisky Flat — Hawthorne Subarea

10-CENTRAL REGION

111. Alkali V. (Mineral)
    (A) Northern Part
    (B) Southern Part
112. Mono V.
113. Huntoon V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
    (A) Eastern Part
    (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
    (A) Tonopah Flat
    (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
    (A) Northern Part
    (B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
    (A) Northern Part
    (B) Central Part
    (C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
    (A) Groom Lake V.
    (B) Papoose Lake V.
159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahrump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
    (A) Northern Part
    (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
    (A) Southern Part
    (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
    (A) Northern Part (Round V.)
    (B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippett V.
186. Antelope V. (White Pine & Elko)
    (A) Southern Part
    (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
    (A) Herrell Siding—Brush Creek Area
    (B) Toano—Rock Spring Area
    (C) Rocky Butte Area
    (D) Montello—Crittenden Creek Area (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

12-ESCALANTE DESERT

197. Escalante Desert

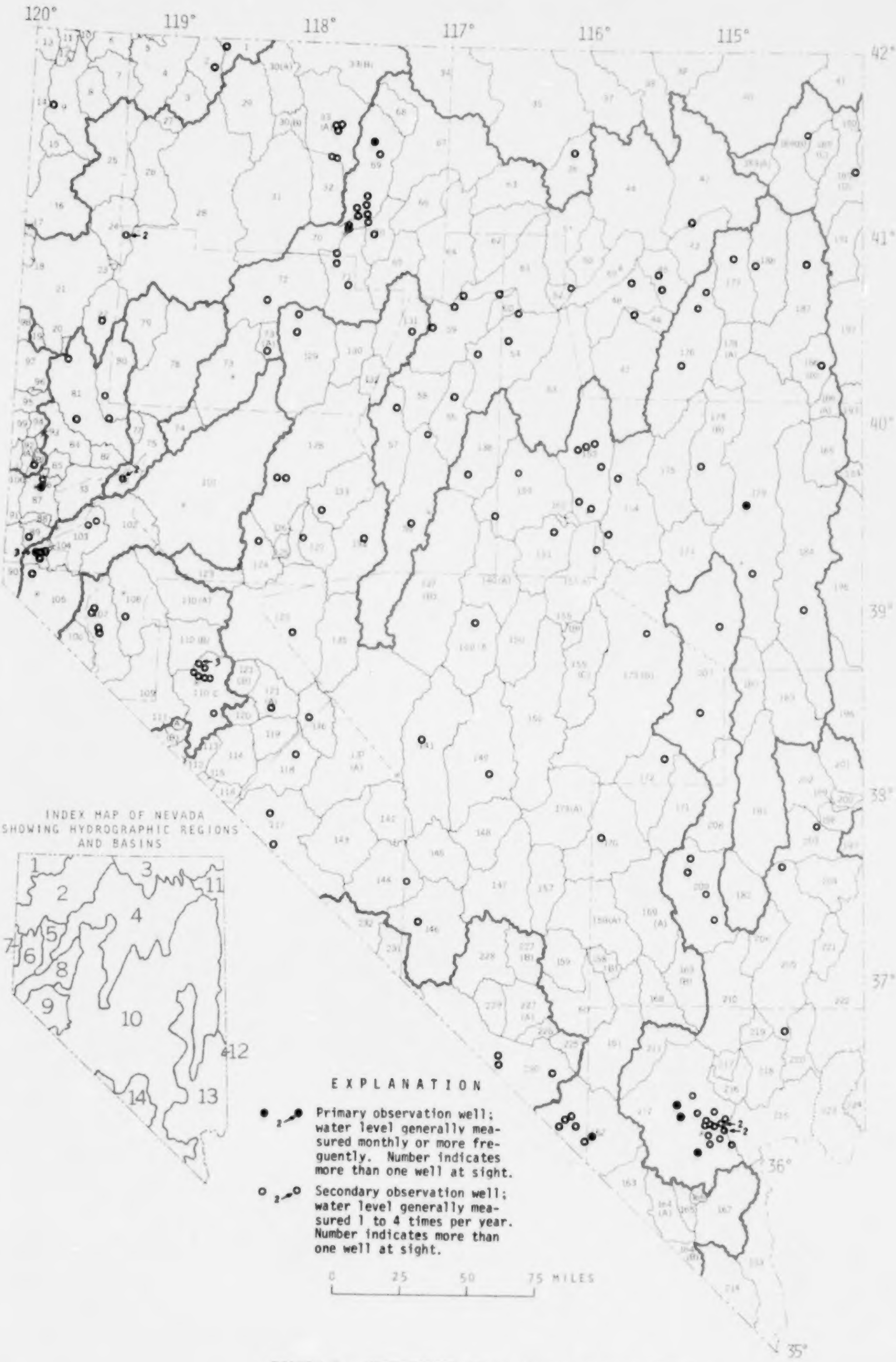
13-COLORADO RIVER BASIN

198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahranagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

14-DEATH VALLEY BASIN

225. Mercury V.
226. Rock V.
227. Fortymile Canyon
    (A) Jackass Flats
    (B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

*Noncontributing part of the Colorado River Basin


120°
119°
118°
117°
116°
115°
42°
41°
40°
39°
38°
37°
36°
35°
INDEX MAP OF NEVADA SHOWING HYDROGRAPHIC REGIONS AND BASINS
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11
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13
14
EXPLANATION
● 2 Primary observation well; water level generally measured monthly or more frequently. Number indicates more than one well at sight.
○ 2 Secondary observation well; water level generally measured 1 to 4 times per year. Number indicates more than one well at sight.
0
25
50
75 MILES

FIGURE 9.--OBSERVATION WELLS LISTED IN THIS REPORT.

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PARADISE VALLEY

412910117321001. Local number, 69 N42 E39 25C1.
LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Dug unused well, diameter 6 ft (2 m), depth 18 ft (5.5 m), cased with iron.
DATUM.--Altitude of land-surface datum is 4,523 ft (1,378 m). Measuring point: Top of concrete floor, 5.20 ft (1.58 m) below land-surface datum.
REMARKS.--In Paradise Valley.
PERIOD OF RECORD.--1945 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.72 ft (0.52 m) below land-surface datum, June 24, 1975; lowest measured, 11.03 ft (3.36 m) below land-surface datum, Nov. 16, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 05	7.85	Jan. 12	7.96	Apr. 27	7.91	July 19	6.50
Nov. 23	7.93	Feb. 18	7.99	May 31	6.77	Aug. 23	7.96
Dec. 22	7.98	Mar. 21	7.96	June 29	5.63	Sept. 29	8.68

TRUCKEE MEADOWS

393143119453201. Local number, 87 N19 E20 08ACC1.
LOCATION.--Lat 39°31'43", long 119°45'32", Hydrologic Unit 16050102, in Washoe County.
Owner: J. G. Morrison.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in (0.15 m), depth 42 ft (13 m), cased to 42 ft (13 m).
DATUM.--Altitude of land-surface datum is 4,415 ft (1,346 m). Measuring point: Top of casing, 0.5 ft (0.15 m) above land-surface datum.
REMARKS.--In Truckee Meadows.
PERIOD OF RECORD.--1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.44 ft (0.44 m) below land-surface datum, Aug. 14, 1958; lowest measured, 17.60 ft (5.36 m) below land-surface datum, Mar. 21, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 18	7.58	Jan. 20	13.89	Apr. 21	13.82	July 21	10.43
Nov. 23	9.77	Feb. 22	16.96	May 23	12.68	Aug. 24	8.53
Dec. 23	11.97	Mar. 21	17.60	June 23	10.10	Sept. 27	7.65

EAGLE VALLEY

391046119465901. Local number, 104 N15 E20 07BCDD1.
LOCATION.--Lat 39°10'46", long 119°46'59", Hydrologic Unit 16050201, in Carson City.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 1.5 in (0.038 m), depth 64 ft (20 m), cased to 64 ft, screened 62 to 64 ft.
DATUM.--Altitude of land-surface datum is 4,800 ft (1,460 m). Measuring point: Top of casing, 2.6 ft (0.79 m) above land-surface datum.
REMARKS.--In Eagle Valley, went dry in Sept. 1977.
PERIOD OF RECORD.--1972 to Sept. 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.35 ft (10.47 m) below land-surface datum, Jan. 3, 1973; lowest measured, 59.89 ft (18.25 m) below land-surface datum, Aug. 1, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 19	56.36	Jan. 20	57.59	Apr. 27	56.85	July 22	59.56
Nov. 23	57.00	Feb. 22	57.82	May 23	58.18	Aug. 01	59.89
Dec. 23	57.40	Mar. 21	56.46	June 23	57.39	Sept. 29	DRY

391046119465902. Local number, 104 N15 E20 07BCAA2.
LOCATION.--Lat 39°10'46", long 119°46'59", Hydrologic Unit 16050201, in Carson City.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in (0.05 m), depth 85 ft (25.9 m), cased to 85 ft, perforated 83 to 85 ft.
DATUM.--Altitude of land-surface datum is 4,802 ft (1,464 m). Measuring point: Hole in plastic cap, at land-surface datum.
REMARKS.--In Eagle Valley; drilled as replacement well for well 391046119465901.
PERIOD OF RECORD.--1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.40 ft (10.01 m) below land-surface datum, Aug. 1, 1977; lowest measured, 65.35 ft (19.91 m) below land-surface datum, Sept. 29, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.	--	Jan.	--	Apr.	--	July	--
Nov.	--	Feb.	--	May	--	Aug. 01	62.40
Dec.	--	Mar.	--	June	--	Aug. 24	65.12
						Sept. 29	65.35

391044119470201. Local number, 104 N15 E20 07CBAA1.
LOCATION.--Lat 39°10'44", long 119°47'02", Hydrologic Unit 16050201, in Carson City.
Owner: Dr. Evan Allred.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled domestic well, diameter 8 in (0.20 m), depth 105 ft (32 m), cased to 105 ft, perforated 85 to 105 ft.
DATUM.--Altitude of land-surface datum is 4,802 ft (1,464 m). Measuring point: Top of casing, through center hole, 1.0 ft (0.30 m) above land-surface datum.
REMARKS.--In Eagle Valley.
PERIOD OF RECORD.--1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.68 ft (17.88 m) below land-surface datum, Dec. 27, 1976; lowest measured, 67.53 ft (20.58 m) below land-surface datum, May 23, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.	--	Jan. 20	58.69	Apr. 21	59.34	July 21	60.91
Nov.	--	Feb. 25	58.87	May 23	67.53	Aug. 24	64.00
Dec. 27	58.68	Mar. 21	58.98	June 23	59.65	Sept. 29	64.69

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10ACC1.
LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.
Owner: Bowman.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in (0.36 m), depth 800 ft (244 m), cased to 472 ft (144 m), perforated 100-450 ft (30-137 m).
DATUM.--Altitude of land-surface datum is 2,885 ft (879 m). Measuring point: Edge of recorder shelf 1.2 ft (0.37 m) above land-surface datum.
REMARKS.--State Engineer well no. 22, measurements supplied by Office of the Nevada State Engineer.
PERIOD OF RECORD.--1944, 1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.34 ft (8.64 m) below land-surface datum, Oct. 13, 1944; lowest measured, 108.60 ft (33.10 m) below land-surface datum, Aug. 16, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	--	--	--	97.12	98.16	101.50	105.14	105.08	105.90	106.96	108.46	--
10	104.14	--	97.94	97.08	98.52	100.82	105.44	105.12	106.36	107.56	108.13	109.30
15	103.57	--	97.60	97.04	98.80	101.94	105.30	103.94	106.86	107.92	108.34	107.27
20	102.90	--	97.40	98.08	100.00	103.84	105.34	103.16	106.60	108.06	107.68	108.25
25	102.72	--	97.17	98.65	100.53	103.94	105.47	104.32	106.65	108.18	107.46	108.64
EOM	101.86	--	97.28	98.10	100.86	104.64	105.70	105.46	106.50	108.30	107.40	107.92

WTR YEAR 1977 MAX 97.04 Jan. 15, 1977 MIN 108.60, Aug. 16, 1977

STEPTOE VALLEY

393310114475001. Local number, 179 N20 E64 32C2.
LOCATION.--Lat 39°33'10", long 114°47'50", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled test well, diameter 10 in (0.25 m), depth 110 ft (34 m), cased.
DATUM.--Altitude of land-surface datum is 6,070 ft (1,850 m). Measuring point: Top of casing, 1.00 ft (0.305 m) above land-surface datum.
PERIOD OF RECORD.--1918, 1949-57, 1959, 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.61 ft (3.53 m) below land-surface datum, May 20, 1976; lowest measured, 17.87 ft (5.45 m) below land-surface datum, Dec. 17, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 14	12.12	Jan. 19	11.57	Apr. 20	11.24	July 20	11.90
Nov.	--	Feb. 22	11.46	May 18	11.14	Aug. 25	12.39
Dec. 22	11.65	Mar. 23	11.34	June 23	11.19	Sept. 21	12.50

LAS VEGAS VALLEY

361840115164001. Local number 212 S19 E60 09BCC1.
LOCATION.--Lat 36°18'40", long 115°16'40", Hydrologic Unit 15010015, in Clark County.
Owner: P. J. Goumond.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (0.25 m), depth 830 ft (43 m), cased to 140 ft (43 m).
DATUM.--Altitude of land-surface datum is 2,500 ft (760 m). Measuring point: Top of casing 0.5 ft (0.15 m) above land-surface datum.
REMARKS.--State Engineer well no. 427, measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1944 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.65 ft (13.30 m) below land-surface datum, June 3, 1946; lowest measured, 151.96 ft (46.32 m) below land-surface datum, Aug. 24, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.
5	145.04	145.06	144.26	143.32	143.26	--	147.70	147.74	148.70	149.76	151.30	--
10	144.98	144.74	143.90	143.40	143.30	145.50	147.14	147.08	148.78	--	151.64	150.80
15	145.44	145.36	144.24	143.44	144.40	145.32	147.66	147.52	149.26	--	--	151.06
20	145.86	144.50	144.15	143.42	144.10	144.74	147.58	148.64	149.30	--	--	151.80
25	146.20	144.48	144.04	143.30	145.70	145.56	147.90	147.04	149.30	--	--	151.36
EOM	146.20	144.38	143.90	143.50	144.42	145.64	147.76	148.70	149.56	--	--	151.58

WTR YEAR 1977 MAX 143.26 Feb. 5, 1977 MIN 151.96 Aug. 24, 1977

361611115151301. Local number, 212 S19 E60 27BDC1.
LOCATION.--Lat 36°16'11", long 115°15'13", Hydrologic Unit 15010015, in Clark County.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 5 in (0.13 m), depth 905 ft (276 m), cased to 84 ft (26 m).
DATUM.--Altitude of land-surface datum is 2,360.8 ft (719.33 m). Measuring point: 1.45 ft (0.442 m) above land-surface datum.
REMARKS.--Measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1946 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.9 ft (14.3 m) above land-surface datum, June 3, 1946; lowest measured, 71.10 ft (21.67 m) below land-surface datum, Aug. 29, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct.	62.60	Jan. 24	59.67	Apr. 02	63.87	July 25	70.70
Nov. 22	61.66	Feb.	62.60	May 23	66.10	Aug. 29	71.10
Dec. 27	60.40	Mar. 29	63.12	June 27	68.80	Sept. 26	70.00

360350115102001. Local number, 212 S22 E61 04BCC1.
LOCATION.--Lat 36°03'50", long 115°10'20", Hydrologic Unit 15010015, in Clark County.
Owner: Fitzpatrick.
AQUIFER.--Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in (0.20 m), depth 355 ft (108 m).
DATUM.--Altitude of land-surface datum is 2,224.91 ft (678.153 m). Measuring point: Top of casing, 0.80 ft (0.244 m) above land-surface datum.
REMARKS.--Measurements supplied by Office of Nevada State Engineer.
PERIOD OF RECORD.--1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.4 ft (22.7 m) below land-surface datum, Jan. 25, 1939; lowest measured, 148.56 ft (45.28 m) below land-surface datum.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, AT NOON FROM RECORDER GRAPH, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
5	145.44	145.72	144.90	143.62	143.69	--	143.91	145.26	145.82	147.02	148.10	--
10	145.70	145.64	144.74	143.70	143.62	--	144.12	144.89	146.05	147.28	148.32	--
15	145.92	145.36	144.50	143.79	143.72	--	144.76	144.73	146.20	147.54	148.42	--
20	146.08	145.34	144.36	143.60	144.08	--	145.10	144.98	146.20	147.46	148.06	--
25	146.09	145.12	144.12	143.48	144.26	--	145.10	144.72	146.90	--	148.12	--
EOM	145.70	145.30	143.90	143.58	144.22	--	145.28	145.14	147.06	--	148.04	--

WTR YEAR 1977 MAX 143.48 Jan. 25, 1977 MIN 148.56 Aug. 11, 1977

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

[Depths referenced to land surface datum (LSD). County codes: 510, Carson City; 001, Churchill; 003, Clark; 005, Douglas; 027, Pershing; 029, Storey; 031, Washoe; 033, White Pine. Water use codes: H, domestic; I, irrigation; O, observation; A, artesian; U, unknown; W, water table. Interval shown for period of record spans period from earliest measurement to well, D, dry, P, pumping; R, reported.]

LOCAL WELL NUMBER	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
1 N47 E30 15CDCD1	415800118370001	PINE FOREST FARM	013	I	110VLFL	U	200
2 N45 E28 10CAB 1	415000118440001	ALDER CREEK RANCH	013	S	110VLFL	U	48
9 N43 E19 33BB 1	413630119520001	- -	031	S	110VLFL	U	70
22 N30 E23 29B 1	402700119250001	- -	031	S	110VLFL	U	
24 N35 E24 32DDC 1	405200119170001	USGS	027	U	110VLFL	W	15
24 N35 E24 32DDC 2	405200119170002	USGS	027	U	110VLFL	A	66
32 N42 E37 32AAAC1	412854117495001	E. F RUNOW	013	I	110VLFL	U	250
32 N42 E37 33BDAB1	413310117482002	DREES	013	I	110VLFL	U	95
33A N42 E37 03BBAB1	413320117482001	GEORGE REED	013	I	110VLFL	U	160
33A N42 E37 04BDCA1	413300117494001	MORRIS	013	I	110VLFL	U	
33A N44 E37 33AAAA1	412934117483001	ALBISU	013	I	110VLFL	U	550
36 N41 E52 28AADA2	412534116072602	ELLISON	007	U	110VLFL	U	
42 N37 E59 25BCBC1	410400115164001	MARBLE RANCH	007	H	110VLFL	W	14
45 N33 E58 19ADDD1	404350115281001	H CONRAD	007	H	110VLFL	W	16
45 N34 E57 24CDDD1	404822115300801	BALBOA	007	H	110VLFL	A	97
46 N31 E56 16ADDA1	403400115400001	- -	007	S	110VLFL	U	
48 N33 E56 08CAAD1	404521115395801	MOFAT	007	H	110VLFL	W	12
52 N33 E52 27DDBA1	404240116025001	CARLIN TN. GOVT.	007	U	110VLFL	U	500
54 N29 E48 03BDCB1	402450116324001	DEAN RANCH	011	S	110VLFL	A	
54 N29 E48 29CACC2	402100116352001	BEOWAWE FARMS	011	I	110VLFL	U	300
54 N31 E49 05CACC1	403500116284501	WILLIAM CONNELLY	011	H	110VLFL	W	10
55 N26 E45 28CBAC1	400540116550001	FILIPPINI	015	S	110VLFL	U	
56 N18 E43 06D 1	392700117110001	DARRELL BLANTON	015	I	110VLFL	U	241
56 N24 E43 35CC 1	395335117062401	STIENEN RANCH	015	I	110VLFL	U	202
57 N25 E41 12BCC 1	400320117190101	USGS	015	U	110VLFL	W	67
59 N30 E44 18ADBD1	402831117034201	COPPER CANYON	015	U	110VLFL	U	329
59 N31 E44 01DACA1	403520117181101	USGS	015	O	110VLFL	W	50
59 N31 E45 05ABBD1	403539116553201	USGS	015	U	110VLFL	W	14
59 N32 E47 03DAAC1	404032116391101	USGS	015	O	110VLFL	W	
61 N32 E45 11DACC1	403920116520001	USGS	015	U	110VLFL	U	197
69 N37 E38 02AAB 1	410705118394001	TOLLHOUSE WELL	013	U	110VLFL	W	79
69 N37 E38 24ACC 1	410415117384701	USGS	013	U	110VLFL	W	37
69 N37 E39 15CBC 1	410448117344901	USGS	013	U	110VLFL	W	30
69 N38 E39 09CCAB1	411056117354901	D VEDDER	013	S	110VLFL	U	55
69 N38 E39 28CDDD1	410806117353501	W. G LONG	013	I	110VLFL	U	256
69 N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	013	U	110VLFL	W	27
70 N36 E38 05DDCD1	410111117431801	USGS	013	U	110VLFL	W	23
70 N36 E38 16BCCA1	405940117423001	GEORGE HAY CO	013	I	110VLFL	U	55
70 N36 E39 03CBBB1	410131117345901	USGS	013	O	110VLFL	W	17
70 N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	013	U	110VLFL	U	101
71 N33 E38 32BABB1	404138117441501	USBLM	027	S	110VLFL	W	54

007, Elko; 009, Esmeralda; 011, Eureka; 013, Humboldt; 015, Lander; 017, Lincoln; 019, Lyon; 021, Mineral; 023, Nye;
S, stock; U, unused. Geologic unit codes: 110 VLFL, Quaternary period, undifferentiated valley fill. Aquifer codes:
latest measurement, may include intervals with no record. Water levels above LSD are negative; F indicates flowing

DIAM-ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.0	-	4,540	1968-	45.58	3/20/68	56.80	5/01/69	51.42	3/22/77
8.0	-	4,228	1968-	4.17	6/14/71	13.76R	3/22/77	13.76R	3/22/77
6.0	-	5,200	1968-	1.28P	4/13/76	13.31	2/29/68	12.27	3/24/77
6.0	-	4,013	1966-	45.20	4/09/69	47.60	3/24/77	47.60	3/24/77
1.5	13-15	4,031	1967-	3.77	4/16/73	8.19	3/24/77	8.19	3/24/77
1.5	64-66	4,031	1967-	-2.25	6/14/67	5.94	3/24/77	5.94	3/24/77
16.0	150-250	4,200	1971-	50.96	4/30/73	78.11	4/29/71	58.33	3/23/77
14.0	-	4,220	1948-	36.54	4/21/48	174.54	3/25/70	116.58	3/23/77
12.0	10-150	4,260	1949-	16.55	1/20/50	123.19	3/23/77	123.19	3/23/77
16.0	-	4,235	1971-	91.22	3/20/75	108.39	3/23/77	108.39	3/23/77
16.0	175-545	4,280	1972-	106.84	4/08/72	117.94	3/23/77	117.94	3/23/77
1.5	-	5,700	1970-	46.59	4/16/71	47.54	3/30/70	47.46	3/28/77
44.0	-	5,350	1938-	0.32	4/28/69	9.50	9/17/66	6.01	3/10/77
48.0	-	5,350	1934-	3.64	9/15/65	18.00	11/01/40	13.10	3/02/77
9.0	-	5,550	1944-	-0.60	4/29/73	7.10	12/26/52	0 50	3/02/77
6.0	-	5,650	1964-	78.11	3/02/77	90.92	3/17/70	78.11	3/02/77
42.0	-	5,500	1944-	4.30	6/28/58	11.48	9/12/60	7.63	3/02/77
20.0	-	4,920	1938-	4.74	4/28/69	9.05	10/01/44	7.36	3/08/77
8.0	-	4,740	1973-	-0.19	4/04/74	.02	3/01/77	.02	3/01/77
14.0	-	4,810	1958-	56.33	4/12/73	69.28	9/28/66	56.59	3/01/77
44.0	-	4,598	1948-	5.48	4/30/69	8.33	9/22/54	7.40	3/01/77
10.0	-	5,000	1968-	3.64	4/12/73	10.45P	3/23/76	9.07P	3/01/77
16.0	-	5,750	1968-	7.00	3/15/76	8.88	3/20/68	8.14	3/03/77
12.0	-	6,000	1961-	-1.33	3/19/76	2.78	3/20/68	.67	3/22/77
1.5	65-67	4,948	1964-	38.33	4/15/70	58.54	8/05/64	43.74	3/22/77
12.0	-	4,609	1947-	5.25	4/30/69	6.68	9/10/59	6.42	3/01/77
1.5	-		1964	29.81	4/13/71	30.47	3/19/76	30.38	3/01/77
1.5	-	4,545	1964-	3.82	4/30/69	4.53	10/05/66	4.40	3/01/77
0.4	-	4,630	1960-	2.32	4/30/69	8.30	8/16/60	7.94	3/01/77
6.0	-	4,518	1949-	5.98	4/17/72	10.88	10/04/61	8.09	3/01/77
6.0	-	4,333	1945-	[illegible]	4/18/72	43.71	3/21/77	43.71	3/21/77
1.2	-	4,317	1960-	19.64	4/18/72	21.35	11/05/68	21.28	3/24/77
1.5	28-30	4,326	1968-	22.77	4/18/72	24.90	3/24/77	24.90	3/24/77
10.0	-	4,317	1960-	13.41	2/20/75	19.80P	3/24/77	19.80P	3/21/77
16.0	-	4,317	1968-	9.86	4/18/72	18.69	3/24/77	18.69	3/24/77
4.0	-	4,414	1970-	0.69	4/23/71	4.63	3/21/77	4.63	3/21/77
1.2	-	4,400	1960-	.86	4/25/69	13.49	9/20/66	12.12	3/31/77
12.0	-	[illegible]	1945-	14.11	4/25/69	20.82	[illegible]	19.76	3/31/77
1.2	-	4,350	1960-	3.11	3/21/62	6.07	[illegible]	6.07	3/31/77
6.0	-	5,200	1949-	20.17	9/01/58	[illegible]	3/15/64	32.95	3/08/77
6.0	-	4,431	1946-	26.40	[illegible]	[illegible]	3/30/77	38.16	3/30/77

LOCAL WELL NUMBER	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
71 N34 E37 22ACAA1	404940117475001	J BALLARD	027	U	110VLFL	U	50
71 N35 E37 34AACC2	405130117480002	- -	013	U	110VLFL	U	83
72 N32 E33 33AAAA1	403620118153001	C. & C. CAMPBELL	027	I	110VLFL	U	288
73A N29 E33 33AAAC1	402000118160001	LOVELOCK CITY	027	P	110VLFL	U	
76 N20 E25 18CCC 1	393539119133001	JOE GARBARINO	019	U	110VLFL	U	28
76 N20 E25 18CCC 2	393539119133002	JOE GARBARINO	019	U	110VLFL	U	155
80 N24 E23 36CBA 1	395422119210701	M CERESOLA	031	U	110VLFL	U	73
80 N25 E23 23C 1	400100119220001	- -	031	U	110VLFL	W	11
81 N24 E22 31CCC 1	395357119333401	USBIA	.031	U	110VLFL	U	226
81 N28 E21 33CCD 1	401443119381201	USGS	031	U	110VLFL	U	59
87 N20 E20 30DA 1	393415119462101	M MORLEY	031	H	110VLFL	U	12
89 N16 E19 10BDD 1	391613119503501	FLYING ME RANCH	031	U	110VLFL	U	94
92B N21 E19 33BDC 1	393850119514901	YORK	031	N	110VLFL	U	165
103 N17 E23 07DDD 1	392029119260301	MING CO UTAH CONST	019	U	110VLFL	U	386
103 N17 E23 10BAA 1	392110119232401	M PHILLIPS	019	I	110VLFL	U	300
104 N15 E20 08BAAD1	391709119511201	EDITH WATERS	510	H	110VLFL	V	18
104 N15 E20 17CACD1	391418119513501	CHILDRENS HOME	510	I	110VLFL	U	600
104 N15 E20 20CCBB1	391235119521501	PHILIP HARPER	510	I	110VLFL	W	37
105 N14 E19 25DA 1	390230119480001	CARSON INDIAN AGENCY	005	I	110VLFL	U	239
110C N06 E31 33BBD2	382020118310001	BILL MERCHANT	021	U	110VLFL	U	69
110C N08 E30 03DA 1	383440118365001	U S ARMY AM PLT	021	H	110VLFL	U	852
110C N08 E30 04AAA 1	383500118390001	USGS	021	U	110VLFL	U	64
110C N08 E30 18AAD 1	383310118401001	U S ARMY AM PLT	021	I	110VLFL	U	345
110C N08 E30 21DDB 1	383150118380001	U S ARMY AM PLT	021	H	110VLFL	U	394
110C N08 E30 26DDA 1	383100118355001	U S ARMY AM PLT	021	N	110VLFL	U	423
110C N08 E31 29CDC 1	383100118330001	U S ARMY AM PLT	021	N	110VLFL	U	452
110C N09 E30 29D 1	383700118400001	USGS	021	U	110VLFL	V	18
110C N09 E30 33CA 1	383600118390001	USGS	021	U	110VLFL	W	41
118 N03 E36 02BCB 1	380854117565601	- -	009	U	110VLFL	U	145
122 N11 E36 18DB 1	384850117581001	- -	023	U	110VLFL	U	
124 N16 E33 02DC 1	391620118143001	C B STARK	001	S	110VLFL	U	441
127 N17 E35 36AD 1	391749117585101	ANGUS DANGBERG	001	U	110VLFL	U	502
128 N21 E34 27DC 1	393920118084001	GREGORY HOMESTD	001	U	110VLFL	U	114
128 N21 E35 31D 1	393840118050001	USBLM	001	S	110VLFL	U	49
129 N30 E35 27DBAA2	402640118015002	NEILL TALCOTT	027	I	110VLFL	U	
129 N31 E35 34CBBD1	403120118015901	GALLIO	027	S	110VLFL	U	40
131 N30 E42 24CCAD1	402710117124001	USBLM	015	S	110VLFL	U	54
133 N19 E37 28BCC 1	392903117495001	CHERRY CR RANCH	001	S	110VLFL	U	260
134 N17 E40 08C 1	392100117310001	SMITH CREEK RCH	015	S	110VLFL	W	55
136 N06 E37 21D 1	382200117510001	- -	021	U	110VLFL	U	300
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RANCH	015	H	110VLFL	V	
139 N19 E47 36B 1	392800116380001	DRY CREEK RANCH	015		110VLFL	U	102
139 N21 E49 16C 1	394059116282901	FRED ETCHEGARAY	011	S	110VLFL	W	59
140B N12 E47 18C 1	385300116400001	PINE CREEK RCH	023	S	110VLFL	U	
141 N05 E44 32BB 1	381500117042001	- -	023	U	110VLFL	U	18

DIAM-ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
6.0	-	4,329	1951-	9.31	3/21/56	13.17	9/20/66	12.97	3/30/77
10.0	-	4,301	1946-	17.68	5/16/46	28.14	10/03/63	26.08	3/30/77
14.0	-	4,150	1951-	32.19	3/24/76	45.85	3/25/70	33.27	3/29/77
	-	4,300	1968-	119.10	4/23/69	123.91	3/29/77	123.91	3/29/77
6.0	-	4,134	1953-	1.96	7/07/55	6.00	4/23/75	5.94	4/19/77
10.0	-	4,135	1953-	3.33	9/02/53	18.09	4/19/77	18.09	4/19/77
6.0	-	3,845	1969-	23.65	7/31/69	27.14	7/14/70	24.05	3/08/77
	-	3,800	1968-	2.47	4/18/73	4.13	6/10/75	4.00	3/24/77
8.0	-	3,988	1970-	10.25	3/09/72	16.20	3/22/77	16.20	3/22/77
1.5	-	3,865	1967-	15.31	7/28/67	17.62	3/23/77	17.62	3/23/77
48.0	-	4,800	1948-	1.72	6/04/56	15.02	10/06/60	1.95	3/21/77
12.0	-	5,065	1968-	5.18	3/09/72	7.05	3/21/77	7.05	3/21/77
8.0	-	4,965	1968-	8.30	3/10/70	12.33	3/15/76	8.48	3/21/77
12.0	-	4,335	1970-	73.98	8/05/70	78.60	6/15/77	78.60	6/15/77
12.0	-	4,285	1969-	48.00D	4/ /69	56.48	2/26/77	56.48	2/26/77
60.0	-	4,720	1951-	0.98	3/13/52	12.98	9/17/64	12.43	4/22/77
18.0	-	4,650	1951-	1.84	3/13/52	23.80	9/16/64	8.79	6/10/77
48.0	-	4,685	1962-	20.53	3/29/71	26.60	9/26/66	25.60	4/22/77
12.0	-	4,68.	1946-	6.09	4/04/76	23.00	10/12/61	8.93	4/22/77
8.0	-	5,700	1951-	42.37	3/12/51	51.20	4/06/77	51.20	4/06/77
18.0	-	4,125	1954-	47.20	12/09/56	117.86	9/27/65	54.83	4/06/77
1.5	62-64	4,065	1968-	31.69	3/18/68	33.92	4/05/77	33.92	4/05/77
18.0	-	4,140	1952-	95.10	11/21/52	108.76	6/30/76	106.36	4/06/77
18.0	-	4,262	1952-	199.90	11/21/52	232.69	4/23/73	210.82	4/06/77
18.0	-	4,341	1952-	246.50	11/21/52	280.41	4/23/73	256.69	4/07/77
18.0	-	4,374	1952-	242.60	11/21/52	257.29	4/13/70	247.58	4/07/77
1.5	16-18	4,050	1968-	8.54	4/23/73	9.27	4/05/77	9.27	4/05/77
1.5	39-41	4,035	1968-	18.75	3/18/68	20.69	4/05/77	20.69	4/05/77
16.0	-	4,580	1968-	41.30	5/23/68	42.73	3/01/72	41.40	3/17/77
10.0	-	4,570	1961-	36.68	12/13/61	39.47	3/18/77	39.47	3/18/77
8.0	-	4,160	1950-	216.68	1/13/55	224.94	3/23/64	217.79	3/21/77
8.0	-	5,250	1950-	27.00	2/ /50	127.50	5/08/75	104.34	3/03/77
11.0	-	3,500	1951-	28.04	6/07/56	32.14	3/21/77	32.14	3/21/77
8.0	-	3,480	1951-	32.33	3/23/64	35.93	3/17/66	34.98	3/21/77
8.0	-	4,240	1963-	13.72	3/19/75	21.57	3/21/65	15.21	3/29/77
6.0	-	4,300	1961-	28.96	3/22/72	45.84	3/22/68	31.92	3/29/77
6.0	-	4,634	1947-	10.75	4/30/67	13.25	9/21/55	11.91	3/01/77
6.0	-	5,360	1974-	169.13	3/02/77	176.56	3/16/74	169.13	3/02/77
6.0	-	6,054	1966-	6.96	3/21/77	11.93	3/22/74	6.96	3/21/77
8.0	-	5,312	1968-	72.14	4/23/73	73.64	3/06/75	73.37	3/17/77
48.0	-	6,000	1968-	23.41	5/01/73	36.92	3/19/68	24.34	3/03/77
8.0	-	6,260	1964-	47.31	4/28/73	56.70	3/16/74	48.33	3/25/77
6.0	-	6,179	1953-	39.15	3/02/53	46.35	3/24/64	41.37	3/25/77
24.0	-	6,820	1968-	1.28	5/01/73	4.65	5/18/74	4.35	3/22/77
	-	5,800	1948-	11.57	3/21/74	12.85	9/11/51	12.30	3/22/77

LOCAL WELL NUMBER	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
144 S06 E43 05CAD 1	372700117110001	- -	009	S	110VLFL	U	
146 S08 E44 08AA 2	371553117034302	DON TERREL	023	U	110VLFL	U	250
149 N03 E48 32B 1	380400116380001	JOHN J CASEY	023	S	110VLFL	U	150
151 N18 E51 34D 1	392310116125001	BARTHOLEMAE CORP	011	S	110VLFL	U	130
153 N19 E53 12C 1	393143115572701	IRENE ANDERSON	011	H	111FLDP	W	7
153 N20 E53 31D 1	393310116020001	A C FLORIO	011	S	110VLFL	U	
153 N21HE52 01BC 1	394342114385401	USBLM	011	S	110VLFL	W	70
153 N22 E54 27CA 1	394520115524001	ROBERT STUCKI	011	H	110VLFL	W	94
153 N23 E53 27BB 1	395100115593001	USGS	011	U	110VLFL	W	22
153 N23 E53 30DD 1	395020116030001	USGS	011	U	110VLFL	W	22
154 N18 E55 31C 1	392300115493001	FERA	033	S	110VLFL	U	43
154 N19 E56 30D 2	392850115421001	ELDRIDGE	033	S	110VLFL	U	37
154 N21 E55 09B 1	394200115461001	R.W.HOOPER	033	H	110VLFL	W	33
162 S19 F53 33DAA 1	361523116005101	R S HARMER	023	U	110VLFL	A	775
162 S20 E52 23BBA 1	361204116060301	W H TURNER	023	U	110VLFL	A	500
162 S20 E53 06CDA 1	361405116033201	WOOKRIDGE & CAR	023	U	110VLFL	U	200
162 S20 E53 14DCB 1	361225115590301	RAY THOMAS	023	H	110VLFL	A	254
162 S21 E54 19DD 2	360611115561802	TURNER	023	U	110VLFL	W	76
170 S03 E55 05BDD 1	374256115485501	- -	017	S	110VLFL	W	20
172 N04 E58 36A 1	381000115240001	USBLM	023	S	110VLFL	U	
173B N11 E57 09CD 1	384920115343001	USBLM	023	S	110VLFL	U	354
176 N28 E59 09C 1	401900115200001	RUBY VALLEY NO1	007	S	110VLFL	U	
176 N32 E60 29C 1	403639115133001	USGS	007	U	110VLFL	U	202
176 N33 E60 33D 1	404140115095701	- -	007	S	110VLFL	U	
177 N35 E62 27B 1	405310114574001	USGS	007	U	110VLFL	U	286
178B N22 E60 26A 1	394600115120001	PARIS WELL	033	U	110VLFL	U	
179 N15 E64 07A 1	391100114492001	LLOYD SORENSON	033	I	110VLFL	U	200
184 N13 E67 08D 1	390000114282001	A SCHAURMAN	033	S	110VLFL	W	45
186B N28 E68 08D 1	401900114200001	HIGHWAY WELL	007	S	110VLFL	U	
187 N34 E67 06A 2	405110114262002	WESTERN PACIFIC RR	007	N	110VLFL	U	250
188 N34 E63 01A 1	405100114480001	WESTERN PACIFIC RR	009	U	110VLFL	U	320
189A N43 E66 25D 1	415444114261701	ECCLES RANCH	007	U	110VLFL	W	28
189D N40 E69 13D	412100114060001	GAMBLE RANCH	007	S	110VLFL	U	
203 S01 E68 33B 1	374910114231001	LAVON PHILLIPS	017	I	110VLFL	U	120
203 S02 E68 08B 1	374750114242001	USGS	017	U	110VLFL	U	110
203 S03 E67 02A 1	374317114265801	GRANT LEE	017	I	110VLFL	U	225
205 S04 E67 18B 1	373627114315301	EMORY CONAWAY	017	I	110VLFL	U	165
205 S14 E66 15A 1	364321114351001	USGS	003	U	110VLFL	W	29
207 N09 E61 07B 1	382432115095801	LLOYD SORENSON	023	S	110VLFL	W	43
207 N12 E62 18D 1	385400115024001	USGS	033	U	110VLFL	U	108
209 S04 E60 02A 2	373806115125102	NEIL STEWART	017	U	110VLFL	U	403
209 S04 E60 34A 2	373330115142002	W SCHOFIELD JR	017	U	110VLFL	W	96
209 S06 E61 18D 2	372500115104002	GARDNER CHISM	017	U	110VLFL	W	41
209 S08 E61 02C 1	371640115072001	LAMB	017	I	110VLFL	U	92

DIAM-ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AM LSD)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.0	-	4,622	1967-	287.12	2/15/68	292.75	3/19/69	288.41	3/09/77
14.0	-	4,001	1962-	34.84	4/15/68	36.26	3/09/77	36.26	3/09/77
6.0	-	5,500	1962-	109.91	6/20/62	113.42	5/04/72	110.95	3/23/77
6.0	-	6,550	1949-	93.69	3/16/66	96.11	4/19/71	94.67	3/24/77
50.0	-	6,500	1947-	5.10	5/13/74	7.41	3/24/64	6.46	3/25/77
6.0	-	6,100	1947-	155.46	9/06/57	193.92	3/17/74	174.81	3/25/77
8.0	-	5,948	1965-	48.78	4/08/66	58.11	4/05/77	58.11	4/05/77
12.0	-	5,658	1949-	5.49	11/08/49	29.30	3/24/77	29.30	3/24/77
1.5	20-22	5,820	1964-	11.60	4/22/69	16.52	5/20/64	12.99	3/24/77
1.5	20-22	5,821	1964-	14.50	4/22/70	17.10	5/20/64	14.39	3/24/77
36.0	-	5,930	1946-	33.19	9/15/54	43.96	9/11/63	35.17	3/24/77
42.0	-	5,900	1962-	22.11	4/20/71	39.01	11/12/64	36.59	3/24/77
60.0	-	5,950	1948-	10.67	3/26/56	20.80	10/12/62	15.70	3/24/77
12.0	-	2,607	1947-	-23.55	11/20/47	38.23	3/08/77	38.23	3/08/77
14.0	32-500	2,531	1954-	30.00	7/16/54	42.13	2/16/65	41.25	3/07/77
14.0	30-168	2,558	1959-	15.43	2/02/59	24.34	3/08/77	24.34	3/08/77
8.0	-	2,679	1945-	-23.20	3/06/45	90.61	2/27/75	82.29	3/08/77
10.0	-	2,584	1959-	38.70	1/30/59	44.06	2/24/69	42.06	3/08/77
8.0	-	5,080	1968-	18.73	1/18/77	22.27	3/23/73	18.73	1/18/77
10.0	-	5,200	1963-	24.30	5/09/63	26.62	4/22/71	25.13	3/23/77
6.0	-	5,072	1948-	170.92	3/23/77	177.61R	9/16/49	170.92	3/23/77
	-	6,150	1948-	14.61	4/24/73	114.77	3/07/77	114.77	3/07/77
6.0	-	6,000	1949-	1.38	3/28/51	5.35	9/21/61	3.85	3/07/77
14.0	-	6,000	1948-	4.80	6/10/49	12.53	9/21/61	9.15	3/07/77
6.0	-	5,650	1949-	6.43	9/13/65	11.07	5/03/55	9.01	3/07/77
6.0	-	6,190	1967-	59.85	4/21/69	65.30	3/18/76	65.28	3/24/77
16.0	-	6,500	1948-	31.76	4/23/70	41.83	3/10/61	35.90	3/24/77
36.0	-	5,800	1947-	12.00	9/12/51	18.60	9/23/61	13.78	3/24/77
	-	5,640	1948-	97.64	3/11/77	104.71	9/15/49	97.64	3/11/77
16.0	-	5,550	1948-	26.85	3/27/51	30.51	3/28/49	29.09	3/07/77
12.0	-	5,610	1968-	13.87	3/18/76	15.14	3/28/68	13.91	3/07/77
60.0	-	5,250	1967-	8.36	4/29/69	15.21	2/28/68	13.00	3/10/77
6.0	-	4,800	1968-	5.69	3/13/74	16.98	3/13/75	15.66	3/18/77
10.0	-	4,784	1946-	30.32	4/25/46	40.68	1/19/77	40.68	1/19/77
8.0	-	5,000	1950-	10.72	3/20/50	22.82	8/27/64	18.14	1/19/77
10.0	-	4,605	1960-	20.74	2/24/62	23.71	2/12/75	23.67	1/19/77
14.0	-	4,360	1963-	16.90	2/04/70	26.26	11/18/65	18.40	1/21/77
0.4	-	1,800	1961-	14.65	1/08/71	21.18	5/10/61	16.19	1/26/77
48.0	-	5,400	1962-	30.00	3/12/68	31.83	3/24/65	30.46	3/23/77
6.0	-	5,600	1962-	44.97	4/24/70	53.21	9/16/66	52.90	3/23/77
12.0	-	4,200	1960-	88.60	3/23/73	135.07	1/18/77	135.07	1/18/77
10.0	-	4,000	1946-	60.39	9/15/55	72.73	2/22/65	66.78	1/18/77
6.0	-	3,500	1946-	5.85	2/23/63	11.76	1/18/77	11.76	1/18/77
10.0	-	3,020	1946-	17.33	3/23/73	28.06	2/24/76	27.46	1/18/77

LOCAL WELL NUMBER	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S19 E60 04DAB 1	361939115154801	P J GOUMOND	003	I	110VLFL	A	780
212 S20 F60 02DDD 1	361359115133101	ARTHUR E GREY	003	U	110VLFL	A	707
212 S20 E61 02DBB 1	361419115072201	HARTWELL & LOWE	003	U	110VLFL	A	785
212 S20 E61 29DABD1	361046115102001	- -	003	U	110VLFL	W	73
212 S20 E61 32CDC 1	360941115104801	KENNETH SEARLES	003	H,I	110VLFL	A	665
212 S20 E62 20ADAC1	361156115034801	- -	003	U	110VLFL	W	155
212 S20 E62 29DCAB1	361036115040401	- -	003		110VLFL	W	98
212 S20 E62 32BBB 1	361025115044701	E B GRUBB	003	I	110VLFL	A	500
212 S21 E61 03ABB 2	360931115083802	W PARK	003	U	110VLFL	A	807
212 S21 E61 04AAD 1	360910115092001	OPACO LUMBER CO	003	U	110VLFL	A	793
212 S21 E61 22CCC 1	360600115091001	A BAKER	003	U	110VLFL	A	500
212 S21 E62 10ACAA1	360826115020001	NEVADA POWER CO	003	U	110VLFL	A	260
212 S21 E62 10ACDC1	360817115020301	NEVADA POWER CO	003	U	110VLFL	W	30
212 S21 E62 29CCB 1	360520115045301	J R BOND	003	U	110VLFL	A	404

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.0	311-606	2,454	1946-	-30.60	4/05/46	68.63	8/26/74	65.40 60.42 64.40	11/18/76 3/03/77 5/09/77
10.0	-	2,207	1947-	86.32	2/10/55	268.40	7/14/77	258.91 257.17 262.12 268.40	12/01/76 3/02/77 5/09/77 7/14/77
8.0	-	1,908	1949-	-14.20	12/29/49	60.85	11/16/70	32.54 32.91 29.94 30.86	11/18/76 3/01/77 5/09/77 7/14/77
8.0	-	2,079	1972-	19.37	3/04/74	21.86	7/14/77	21.04 21.30 21.86	3/02/77 5/09/77 7/14/77
10.0	-	2,102	1946-	-81.30	2/27/46	108.19	8/07/75	69.09 64.26 66.17 75.91	11/18/76 3/02/77 5/09/77 7/14/77
8.0	-	1,766	1971-	61.90	3/04/71	81.44	11/18/76	81.44 79.44 78.74 80.10	11/18/76 3/01/77 5/09/77 7/14/77
4.0	-	1,766	1971-	61.90	3/04/71	65.90	11/18/76	65.90 64.07 63.53 63.50	11/18/76 3/01/77 5/09/77 7/14/77
8.0	-	1,772	1946-	16.97	3/29/46	49.93	10/02/72	40.99 39.73 39.41 39.10	11/18/76 3/01/77 5/09/77 7/14/77
12.0	-	2,014	1944-	-38.11	3/06/44	57.41	8/21/73	49.50 45.68 52.70	11/18/76 5/10/77 7/14/77
14.0	-	2,038	1944-	-14.20	8/19/44	71.81	8/26/74	59.94 53.82 57.40 65.90	11/19/76 3/03/77 5/09/77 7/14/77
6.0	-	2,072	1940-	-28.8	8/21/44	90.39	8/26/74	54.46 56.21 89.32	11/18/76 5/10/77 7/14/77
14.0	-	1,705	1972-	13.36	3/03/76	19.97	2/22/72	14.61 13.64 13.86 14.75	11/18/76 3/02/77 5/10/77 7/14/77
14.0	-	1,695	1972-	6.18	11/27/74	9.18	2/22/72	9.01 7.32 7.98	11/18/76 5/10/77 7/14/77
6.0	-	1,165	1961-	F	5/09/77	10.10	2/23/73	F F F	11/18/76 5/01/77 7/14/77

LOCAL WELL NUMBER	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FT)
212 S22 E61 03CCB 1	360340115040801	GEORGE CROCKETT	003	I	110VLFL	A	575
212 S22 E62 01CBC 1	360345115002901	RAY PLUMBER	003	I	110VLFL	A	1,135
230 S16 E49 18DC 1	363510116294001	USBLM	023	U	110VLFL	D	348
230 S16 E49 31BA 1	363120116300001	GORDON BETTLES	023	U	110VLFL	D	162
230 S17 E52 08CDB 1	362929116085701	R VANHORN	023	I	110VLFL	D	246

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ALTITUDE LSD (FT AB LSD)	PERIOD OF RECORD	WATER LEVELS, IN FT BELOW LSD HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
10.0	120-	2,150	1946-	8.42	8/27/49	101.83	10/02/72	78.30 54.03 81.26 84.45	11/29/76 3/03/77 5/13/77 7/14/77
8.0	-	1,681	1946-	-72.0	2/25/63	-30.2	3/27/46	-69.00 -69.20 -68.50 -68.00	11/18/76 3/04/77 5/10/77 7/14/77
12.0	-	2,375	1953-	103.10	2/12/55	111.19	3/05/76	111.14	3/08/77
16.0	-	2,326	1952-	66.10	5/07/52	73.54	3/08/77	73.54	3/08/77
12.0	-	2,395	1960-	33.24	2/16/65	57.28P	3/08/77	57.28P	3/08/77

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977--Continued

STATION NUMBER	STATION NAME	COUNTY[1]	GEOLOGIC UNIT[2]	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
392759118443103	101 N19 E29 33CBB3 NAVY BASALT NO. 3	001	110VLCC	77-06-01	984	21.0
392839118463401	101 N19 E29 30CDB 1 FALLON CITY WELL NO 1	001	110VLCC	77-02-28	840	20.0
				77-03-01	840	20.0
392851118463601	101 N19 E29 30CBA 1 FALLON CITY WELL NO 3	001	110VLCC	77-03-07	853	20.0
				77-03-08	853	20.0
393029118461501	101 N19 E29 18DBCC1 KENNAMETAL BASALT NO 1	001	110VLCC	77-05-24	985	21.0

STATION NUMBER	DATE OF SAMPLE	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
392759118443103	77-06-01	--	--	--	--	--	--	--	--	--	--
392839118463401	77-02-28	6	1.4	.6	180	32	7.4	269	E84	70	.7
	77-03-01	5	1.4	.4	180	35	7.4	269	78	70	.7
392851118463601	77-03-07	6	1.5	.6	180	31	7.6	274	81	77	.7
	77-03-08	6	1.3	.7	180	32	7.5	274	81	76	.8
393029118461501	77-05-24	--	--	--	--	--	--	--	--	--	--

STATION NUMBER	DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
392759118443103	77-06-01	--	--	--	--	--	--	--	--	--	--
392839118463401	77-02-28	29	503	492	.00	.38	140	--	--	--	--
	77-03-01	30	503	503	.00	.38	140	0	990	1	0
392851118463601	77-03-07	29	511	514	.00	.43	80	--	--	--	--
	77-03-08	29	510	514	.01	.44	90	0	1000	0	0
393029118461501	77-05-24	--	--	--	--	--	--	--	--	--	--

STATION NUMBER	DATE OF SAMPLE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED NATURAL URANIUM (U) (UG/L)
392759118443103	77-06-01	--	--	--	--	--	--	--
392839118463401	77-02-28	--	--	--	--	--	--	--
	77-03-01	0	20	5	10	.0	1	3.3
392851118463601	77-03-07	--	--	--	--	--	--	--
	77-03-08	0	10	5	0	.0	1	3.6
393029118461501	77-05-24	--	--	--	--	--	--	--

1. COUNTY CODES: 001, CHURCHILL COUNTY; 003, CLARK COUNTY; 031, WASHOE COUNTY.
2. GEOLOGIC UNIT CODES: 110VLFL, UNDIFFERENTIATED VALLEY FILL, PLEISTOCENE AGE; 111FLDP, FLOOD-PLAIN DEPOSITS, HOLOCENE AGE; 110VLCC, VOLCANIC ROCKS, QUATERNARY AGE.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

STATION NUMBER	STATION NAME		COUNTY[1]	GEOLOGIC UNIT[2]	DATE OF SAMPLE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF WELL (FT)
350726114375501	213 S32 E66 33BBB 1	CROMER WELL	003	111FLDP	77-01-27	511	96
					77-07-19	511	96
350910114344001	213 S32 E66 24BBA 1	SUNDANCE SHORES WELL	003	110VLFL	76-11-04	727	480
					77-01-27	727	480
					77-04-20	727	480
					77-07-19	727	480
350920114341901	213 S32 E66 13CDD 1	NEVADA CLUB WELL	003	111FLDP	76-11-04	520	64
					77-01-27	520	64
					77-04-20	520	64
					77-07-19	520	64
350937114341501	213 S32 E66 13DBB 1	RIVERSIDE TRAILER COURT	003	--	76-11-04	521	89
					77-01-19	521	89
					77-01-27	521	89
					77-04-20	521	89
					77-07-19	521	89
393734119582400	100 N21 E18 21BDDD1		031	--	76-11-10	--	--

STATION NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
350726114375501	77-01-27	1130	--	370	98	31	110	2.5	3.2	213	300
	77-07-19	1100	--	370	98	30	120	2.7	3.3	220	300
350910114344001	76-11-04	--	--	270	78	18	150	4.0	3.7	165	210
	77-01-27	1280	--	240	70	17	160	4.5	3.4	159	190
	77-04-20	1170	24.0	250	71	18	160	4.4	3.6	160	190
	77-07-19	1200	--	270	78	18	160	4.2	3.5	160	200
350920114341901	76-11-04	--	--	--	--	--	--	--	--	--	350
	77-01-27	1360	--	--	--	--	--	--	--	--	320
	77-04-20	1200	22.5	--	--	--	--	--	--	--	340
	77-07-19	1220	--	--	--	--	--	--	--	--	330
350937114341501	76-11-04	--	--	400	110	31	130	2.8	4.8	189	350
	77-01-19	1390	--	250	69	20	72	2.0	6.8	150	180
	77-01-27	1560	--	430	120	32	130	2.7	4.6	189	320
	77-04-20	1300	23.0	400	110	31	130	2.8	4.6	180	330
	77-07-19	1220	--	390	110	29	130	2.8	4.4	190	330
393734119582400	76-11-10	304	--	--	--	--	--	--	--	--	--

STATION NUMBER	DATE OF SAMPLE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
350726114375501	77-01-27	96	19	762	.01
	77-07-19	94	18	772	.00
350910114344001	76-11-04	190	27	765	1.6
	77-01-27	200	26	752	1.6
	77-04-20	190	27	745	1.5
	77-07-19	200	27	772	1.5
350920114341901	76-11-04	150	--	--	--
	77-01-27	150	--	--	--
	77-04-20	130	--	--	--
	77-07-19	140	--	--	--
350937114341501	76-11-04	150	15	884	.02
	77-01-19	92	9.5	523	.00
	77-01-27	170	16	886	.04
	77-04-20	130	16	841	.08
	77-07-19	130	15	842	.01
393734119582400	76-11-10	--	--	--	.80

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October 13, 1977

FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	Length	
inches (in)	$2.54\text{x}10^{1}$	millimeters (mm)
	$2.54\text{x}10^{-2}$	meters (m)
feet (ft)	$3.048\text{x}10^{-1}$	meters (m)
miles (mi)	$1.609\text{x}10^{0}$	kilometers (km)
	Area	
acres	$4.047\text{x}10^{3}$	square meters (m^2)
	$4.047\text{x}10^{-1}$	square hectometers (hm^2)
	$4.047\text{x}10^{-3}$	square kilometers (km^2)
square miles (mi^2)	$2.590\text{x}10^{0}$	square kilometers (km^2)
	Volume	
gallons (gal)	$3.785\text{x}10^{0}$	liters (L)
	$3.785\text{x}10^{0}$	cubic decimeters (dm^3)
	$3.785\text{x}10^{-3}$	cubic meters (m^3)
million gallons	$3.785\text{x}10^{3}$	cubic meters (m^3)
	$3.785\text{x}10^{-3}$	cubic hectometers (hm^3)
cubic feet (ft^3)	$2.832\text{x}10^{1}$	cubic decimeters (dm^3)
	$2.832\text{x}10^{-2}$	cubic meters (m^3)
cfs-days	$2.447\text{x}10^{3}$	cubic meters (m^3)
	$2.447\text{x}10^{-3}$	cubic hectometers (hm^3)
acre-feet (acre-ft)	$1.233\text{x}10^{3}$	cubic meters (m^3)
	$1.233\text{x}10^{-3}$	cubic hectometers (hm^3)
	$1.233\text{x}10^{-6}$	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	$2.832\text{x}10^{1}$	liters per second (L/s)
	$2.832\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$2.832\text{x}10^{-2}$	cubic meters per second (m^3/s)
gallons per minute (gal/min)	$6.309\text{x}10^{-2}$	liters per second (L/s)
	$6.309\text{x}10^{-2}$	cubic decimeters per second (dm^3/s)
	$6.309\text{x}10^{-5}$	cubic meters per second (m^3/s)
million gallons per day	$4.381\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$4.381\text{x}10^{-2}$	cubic meters per second (m^3/s)
	Mass	
tons (short)	$9.072\text{x}10^{-1}$	megagrams (Mg) or metric tons